This Page Is Inserted by IFW Operations and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BÖRDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents will not correct images, please do not report the images to the Image Problem Mailbox.

Examile Mail Label No.
El. 661737US
Date of Deposit: 12/21/99

Figures

Figure 1.

	1 AAAATGTATG GATACAACTT ACGTTTGATG AAAGATTTGG GCTTGAAGAC CCAGAAGATG
	TTTTACATAC CTATGTTGAA TGCAAACTAC TTTCTAAACC CGAACTTCTG GGTCTTCTAC
1	61 ACATATGCAA GTATGATTTT GTAGAAGTTG AGGAACCCAG TGATGGAACT ATATTAGGGC
	TGTATACGTT CATACTAAAA CATCTTCAAC TCCTTGGGTC ACTACCTTGA TATAATCCCG
, .	21 GCTGGTGTGG TTCTGGTACT CTACCACCAA ANGACATTT
1.4	TAAAGGAAAT CAAATTACA
	CGACCACACC AAGACCATGA CATGGTCCTT TTGTCTAAAG ATTTCCTTTA GTTTAATCCT
	*1 Methan ThePholes for the man of the
	+1 MetAsn IlePheLeu LeuAsnLeuLeu ThrGluGlu ValArgLeu
13	1 TAAGATTTGT ATCTGATGAA TATTTTCCTT CTGAACCTTC TAACAGAGGA GGTAAGATTA
	ATTCTAAACA TAGACTACTT ATAAAAGGAA GACTTGGAAG ATTGTCTCCT CCATTCTAAT
	THE THE THE TENEDOLD CHET GOARG ATTGTCTCT CCATTCTAAT
	+1 TyrSerCysThr ProArgAsn PheSerVal SerIleArgGlu GluLeuLys ArgThrAsp
24	1 TACAGCIGCA CACCICGIAA CITCICAGIG ICCATAAGGG AAGAACIAAA GAGAACCGAI
	ATGTCGACGT GTGGAGCATT GAAGAGTCAC AGGTATTCCC TTCTTGATTT CTCTTGGCTA
•	-1 ThrileFheTro ProGlyCys LeuLeuVal LysArgCysGly GlyAanCys AlaCysCys
301	TOTAL TOTAL TOTAL TOTAL ANALOGUE GEOGRAPHE TOTAL
	TEGTALLIGA CCEGTCCAAC AGAGGACCAA TTTGCGACAC CACCCTTGAC ACGGACAACA
	1 Lougistandra Aradinara et a ma
	1 LeuHisAsnCys AsnGluCys GlnCysVal ProSerLysVal ThrLysLys TyrHisGlu
361	CTCCACATT GCAATGAATG TCAATGTGTC CCAAGCAAAG TTACTAAAAA ATACCACGAG
	GAGGTGTTAA CGTTACTTAC AGTTACACAG GGTTCGTTTC AATGATTTTT TATGGTGCTC
	TATGGTGCTC ARIGATTTT TATGGTGCTC
+	1 ValLeuGlnLeu ArgProLys ThrGlyVal ArgGlyLeuHis LysSerLeu ThrAspVal
421	TOTAL TOTAL CONTROL AGGGGATTGC ACAIATCACT CACCACCAC
	CAGGAAGTCA ACTOTGGTTT CTGGCCACAG TCCCCTAACG TGTTTAGTGA GTGGCTGCAC
_	
+1	AlaLeuGluHis HisGluGlu CysAspCys ValCysArgGly SerThrGly Gly
461	
401	GCCCTGGAGC ACCATGAGGA GTGTGACTGT GTGTGCAGAG GGAGCACAGG AGGATAGCCG
	CGGGACCTCG TGGTACTCCT CACACTGACA CACACGTCTC CCTCGTGTCC TCCTATCGGC
541	CATCACCACC AGCAGCTCTT GCCCAGAGCT GTGCAGTGCA
	GTAGTGGTGG TCGTCGAGAA CGGGTCTCGA CACGTCACGT
	CACCURACTAN GATAATCTCT
601	ACGTATGCGT TATCTCCATC CTTAATCTCA GTTGTTTGCT TCAAGGACCT TTCATCTTCA
	TGCATACGCA ATAGAGGTAG GAATTAGAGT CAACAAACGA AGTTCCTGGA AAGTAGAAGT
661	GGATTTACAG TGCATTCTGA AAGAGGAGAC ATCAAACAGA ATTAGGAGTT GTGCAACAGC
	CCTAAATETC ACGTAAGACT TTCTCCTCTG TAGTTTGTCT TAATCCTCAA CACGTTGTCG

Express Mail Label No. EL 1737US
Date of Deposit: 12/21/99

721 TCTTTTGAGA GGAGGCCTAA AGGACAGGAG AAAAGGTCTT CAATCGTGGA AAGAAAATTA AGAAAACTCT CCTCCGGATT TCCTGTCCTC TTTTCCAGAA GTTAGCACCT TTCTTTTAAT 781 AATGTTGTAT TAAATAGATC ACCAGCTAGT TTCAGAGTTA CCATGTACGT ATTCCACTAG TTACAACATA ATTTATCTAG TGGTCGATCA AAGTCTCAAT GGTACATGCA TAAGGTGATC 841 CTGGGTTCTG TATTTCAGTT CTTTCGATAC GGCTTAGGGT AATGTCAGTA CAGGAAAAAA GACCCAAGAC ATAAAGTCAA GAAAGCTATG CCGAATCCCA TTACAGTCAT GTCCTTTTTT 901 ACTGTGCAAG TGAGCACCTG ATTCCGTTGC CTTGCTTAAC TCTAAAGCTC CATGTCCTGG TGACACGTTC ACTCGTGGAC TAAGGCAACG GAACGAATTG AGATTTCGAG GTACAGGACC 961 GCCTALLATC GTATAAAATC TGGATTTTTT TTTTTTTTTT TGCTCATATT CACATATGTA 1021 AACCAGAACA TTCTATGTAC TACAAACCTG GTTTTTAAAA AGGAACTATG TTGCTATGAA TTGGTCTTGT AAGATACATG ATGTTTGGAC CAAAAATTTT TCCTTGATAC AACGATACTT 1081 TTAAACITGT GTCGTGCTGA TAGGACAGAC TGGATTTTTC ATATTTCTTA TTAAAATTTC AATTTGAACA CAGCACGACT ATCCTGTCTG ACCTAAAAAG TATAAAGAAT AATTTTAAAG 1141 TGCCATTTAG AAGAAGAGAA CTACATTCAT GGTTTGGAAG AGATAAACCT GAAAAGAAGA ACGGTALATC TTCTTCTTT GATGTAAGTA CCAAACCTTC TCTATTTGGA CTTTTCTTCT 1201 GTGGCCTTAT CTTCACTTTA TCGATAAGTC AGTTTATTTG TTTCATTGTG TACATTTTTA CACCGGAATA GAAGTGAAAT AGCTATTCAG TCAAATAAAC AAAGTAACAC ATGTAAAAAT 1261 TATTCTCCTT TTGACATTAT AACTGTTGGC TTTTCTAATC TTGTTAAATA TATCTATTTT ATAAGAGGAA AACTGTAATA TTGACAACCG AAAAGATTAG AACAATTTAT ATAGATAAAA 1321 TACCALAGGT ATTTAATATT CTTTTTTATG ACAACTTAGA TCAACTATT TTAGCTTGGT ATGGTTTCCA TARATTATAA GAAAAAATAC TGTTGAATCT AGTTGATAAA AATCGAACCA 1381 AAATTITTCT AAACACAATT GTTATAGCCA GAGGAACAAA GATGATATAA AATATTGTTG TTTAARAGA TTTGTGTTAA CAATATCGGT CTCCTTGTTT CTACTATATT TTATAACAAC 1441 CTCTGACAAA AATACATGTA TTTCATTCTC GTATGGTGCT AGAGTTAGAT TAATCTGCAT GAGACTGTTT TTATGTACAT ARAGTAAGAG CATACCACGA TCTCAATCTA ATTAGACGTA 1501 TTTAAAAAC TGAATTGGAA TAGAATTGGT AAGTTGCAAA GACTTTTTGA AAATAATTAA AAATTTTTTG ACTTAACCTT ATCTTAACCA TTCAACGTTT CTGAAAAACT TTTATTAATT 1561 ATTATCATAT CTTCCATTCC TGTTATTGGA GATGAAAATA AAAAGCAACT TATGAAAGTA TAATAGTATA GAAGGTAAGG ACAATAACCT CTACTTTAT TTTTCGTTGA ATACTTTCAT 1621 GACATTCAGA TCCAGCCATT ACTAACCTAT TCCTTTTTTG GGGAPATCTG AGCCTAGCTC CTGTAAGTCT AGGTCGGTAA TGATTGGATA AGGAAAAAAC CCCTTTAGAC TCGGATCGAG 1681 AGARARACAT RAAGCACCTT GARARAGACT TGGCAGCTTC CTGATRAAGC GTGCTGTGCT 1741 GTGCAGTAGG PACACATCCT ATTTATTGTG ATGTTGTGGT TTTATTATCT TAPACTCTGT CACGTCATCC TTGTGTAGGA TARATAACAC TACAACACCA AAATAATAGA ATTTGAGACA 1801 TCCATACACT TGTATARATA CATGGATATT TTTATGTACA GAAGTATGTC TCTTAACCAG AGGTATGIGA ACATATTTAT GTACCTATAA AAATACATGT CTTCATACAG AGAATTGGTC

Fig. 1 (cont.)

ess Mail Label No. 24661737US Date of Deposit: 12/21/99

1861 TTCACTTATT GTACCTGG AAGTGAATAA CATGGACC

Fig. 1 (cont.)

Figure 2. Predicted VEGF-like protein encoded by Incyte contig of 8/12/98

- 1 MNIFLLNLLT EEVRLYSCTP RNFSVSIREE LKRTDTIFWP GCLLVKRCGG
- 51 NCACCLHNCN ECQCVPSKVT KKYHEVLQLR PKTGVRGLHK SLTDVALEHH
- 101 EECDCVCRGS TGG

Figure 3.	PCR primers for cloning VEGF-X
vegfX1	AAAATGTATGGATACAACTTAC
vegfX2	GTTTGATGAAAGATTTGGGCTTG
vegfX3	TTTCTAAAGGAAATCAAATTAG
vegfX4	GATAAGATTTGTATCTGATG
vegfX5	GATGTCTCCTCTTTCAG
vegfX6	GCACAACTCCTAATTCTG
vegfX7	AGCACCTGATTCCGTTGC
vegfX8	TAGTACATAGAATGTTCTGG
vegfX9	AAGAGACATACTTCTGTAC
vegfX10	CCAGGTACAATAAGTGAACTG

Figure 4. Variants isolated by PCR

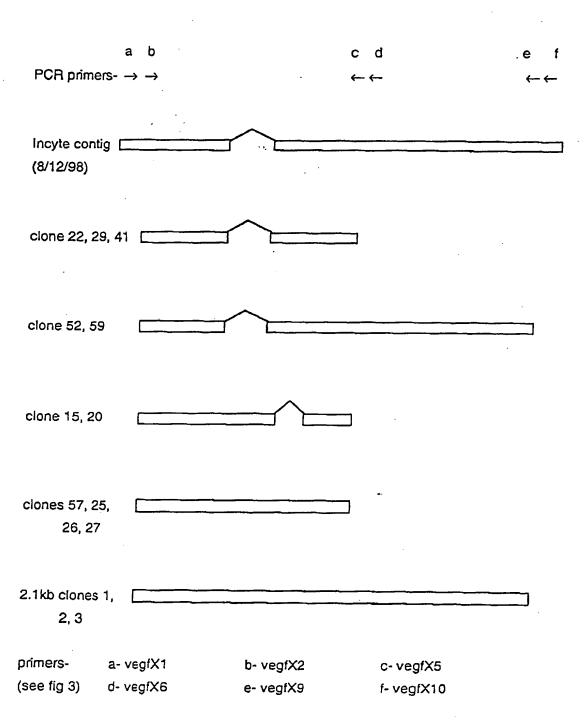


Figure 5. VEGF-X 5' RACE primers

vegfX11 CCTTTAGAAATCTGTTTTCCTGGTACAG

vegfX12 GGAAAATATTCATCAGATACAAATCTTATCC

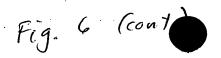
vegfX13 GGTCCAGTGGCAAAGCTGAAGG

vegfX14 CTGGTTCAAGATATCGAATAAGGTCTTCC

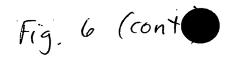
Date of Deposit: 12/21/99

Figure 6. DNA sequence assembled from in-house clones and 5'RACE

	1 TGCCAGAGCA GGTGGGCGCT TCCACCCCAG TGCAGCCCTTC CCCTGGCGGT GGTGAAAGAG
	ACGGTCTCGT CCACCCGCGA AGGTGGGGTC ACGTCGGAAG GGGACCGCCA CCACTTTCTC
	61 ACTCGGGAGT CGCTGCTTCC AAAGTGCCCG CCGTGAGTGA GCTCTCACCC CAGTCAGCCA
	TGAGCCCTCA GCGACGAAGG TTTCACGGGC GGCACTCACT CGAGAGTGGG GTCAGTCGGT
	THE TENEDUCE COCKCICACT CONGRETEGE GTCAGTCGGT
	+2 MetSerLeu PheGlyLeuLeu LeuLeuThr SerAlaLeu AlaGlyGlnArg GlnGlyTh
12	AATGAGCCTC TTCGGGCTTC TCCTGCTGAC ATCTGCCCTG GCCGGCCAGA GACAGGGGAC
	TTACTCGGAG AAGCCCGAAG AGGACGACTG TAGACGGGAC CGGCCGGTCT CTGTCCCCTG
	indicated successful cidicated
	+2 rGlnAlaGlu SerAsnLeuSer SerLysPhe GlnPheSer SerAsnLysGlu GlnAsnGl
18	1 TCAGGCGGAA TCCAACCTGA GTAGTAAATT CCAGTTTTCC AGCAACAAGG AACAGAACGG
	AGTCCGCCTT AGGTTGGACT CATCATTTAA GGTCAAAAGG TCGTTGTTCC TTGTCTTGCC
	TIGTCTTGCC TTGTCTTGCC
	+2 yValGinAsp ProGlnHisGlu ArgIleIle ThrValSer ThrAsnGlySer IleHisSe
24:	AGTACAAGAT CCTCAGCATG AGAGAATTAT TACTGTGTCT ACTAATGGAA GTATTCACAG
	TCATGTTCTA GGAGTCGTAC TCTCTTAATA ATGACACAGA TGATTACCTT CATAAGTGTC
	A
4	2 rProAzgPhe ProHisThrTyr ProArgAsn ThrValLeu ValTrpArgLeu ValAlaVa
301	
	GGGTTCCALL GGAGTATGAA TAGGTTCTTT ATGCCAGAAC CATACCTCTA ATCATCGTCA
	ATGCCAGAGE CATACCTETA ATCATEGTEA
+	2 lGluGluAsn ValTrpIleGln LeuThrPhe AspGluArg PheGlyLeuGlu AspProGl
361	\$C3CC33330 00000000 33000000000000000000
201	TITIGGGCTTG AAGACCAGA TTTGGGCCTTG AAGACCAGA
	TCTCCTTTTA CATACCTATG TTGAATGCAA ACTACTTTCT AAACCCGAAC TTCTGGGTCT
+:	2 uAspAspIle CysLysTyrAsp PheValGlu ValGluGlu ProSerAspGly ThrIleLe
421	}^}mg}A)D
421	TOTAL TOTAL CONTROL OF THE PROPERTY OF THE PRO
	TCTACTGTAT ACGITCATAC TAAAACATCT TCAACTCCTT GGGTCACTAC CTTGATATAA
	Lucial and a second
+ 2	uGlyArgTrp CysGlySerGly ThrValPro GlyLysGln IleSerLysGly AsnGlnIl
481	AGGGCGCTGG TGTGGTTCTG GTACTGTACC AGGAAAACAG ATTTCTAAAG GAAATCAAAT
	TCCCGCGACC ACACCAAGAC CATGACATGG TCCTTTTGTC TAAAGATTTC CTTTAGTTTA
+2	eArglleArg PheValSerAsp GluTyrPhe ProSerGlu ProGlyPheCys IleHisTy
541	TAGGATARGA TITGTATCTG ATGAATATTT TCCTTCTGAA CCAGGGTTCT GCATCCACTA
	ATCCTATTCT AAACATAGAC TACTTATAAA AGGAAGACTT GGTCCCAAGA CGTAGGTGAT
+2	rAsnIle/al MetProGlnPhe ThrGluAla ValSerPro SerValLeuPro ProSerAl
601	CAACATTSTC ATGCCACAAT TCACAGAAGC TGTGAGTCCT TCAGTGCTAC CCCCTTCAGC
-	GTTGTAACAG TACGGTGTTA AGTGTCTTCG ACACTCAGGA AGTCACGATG GGGGAAGTCG
	TOTAL TOTAL TO ACACICAGGA AGTCACGATG GGGGAAGTCG
+2	aLeuProleu AspleuLeuAsn AsnAlaIle ThrAlaPhe SerThrLeuGlu AspLeuIl



- 661 TTTGCCACTG GACCTGCTTA ATAATGCTAT AACTGCCTTT AGTACCTTGG AAGACCTTAT AAACGGTGAC CTGGACGAAT TATTACGATA TTGACGGAAA TCATGGAACC TTCTGGAATA
- +2 eArgTyrLeu GluProGluArg TrpGinLeu AspLeuGlu AspLeuTyrArg ProThrTr
- 721 TCGATATCTT GAACCAGAGA GATGGCAGTT GGACTTAGAA GATCTATATA GGCCAACTTG AGCTATAGAA CTTGGTCTCT CTACCGTCAA CCTGAATCTT CTAGATATAT CCGGTTGAAC
 - +2 pGlnLeuLeu GlyLysAlaPhe ValPheGly ArgLysSer ArgValValAsp LeuAsnLe
- 781 GCAACTTCTT GGCAAGGCTT TTGTTTTTGG AAGAAAATCC AGAGTGGTGG ATCTGAACCT CGTTGAAGAA CCGTTCCGAA AACAAAAACC TTCTTTTAGG TCTCACCACC TAGACTTGGA
 - +2 uLeuThrGlu GluValArgLeu TyrSerCys ThrProArg AsnPheSerVal SerIleAr
- 841 TCTAACAGAG GAGGTAAGAT TATACAGCTG CACACCTCGT AACTTCTCAG TGTCCATAAG
 AGATTGTCTC CTCCATTCTA ATATGTCGAC GTGTGGAGCA TTGAAGAGTC ACAGGTATTC
 - +2 gGluGluLeu LysArgThrAsp ThrIlePhe TrpProGly CysLeuLeuVal LysArgCy
- 901 GGAAGAACTA AAGAGAACCG ATACCATTTT CTGGCCAGGT TGTCTCCTGG TTAAACGCTG CCTTCTTGAT TTCTCTTGGC TATGGTAAAA GACCGGTCCA ACAGAGGACC AATTTGCGAC
 - +2 sGlyGlyAsn CysAlaCysCys LeuHisAsn CysAsnGlu CysGlnCysVal ProSerLy
- 961 TGGTGGGAAC TGTGCCTGTT GTCTCCACAA TTGCAATGAA TGTCAATGTG TCCCAAGCAA ACCACCCTTG ACACCGACAA CAGAGGTGTT AACGTTACTT ACAGTTACAC AGGGTTCGTT
- +2 sValThrLys LysTyrHisGlu ValLeuGln LeuArgPro LysThrGlyVal ArgGlyLe
- 1021 AGTTACTALA ARATACCACG AGGTCCTTCA GTTGAGACCA AAGACCGGTG TCAGGGGATT TCAATGATTT TTTATGGTGC TCCAGGAAGT CAACTCTGGT TTCTGGCCAC AGTCCCCTAA
- +2 uHisLysSer LeuThrAspVal AlaLeuGlu HisHisGlu GluCysAspCys ValCysAr
- 1081 GCACARATCA CTCACCGACG TGGCCCTGGA GCACCATGAG GAGTGTGACT GTGTGTGCAG CGTGTTTAGT GAGTGGCTGC ACCGGGACCT CGTGGTACTC CTCACACTGA CACACACGTC
 - +2 gGlySerThr GlyGly
- 1141 AGGGAGCACA GGAGGATAGC CGCATCACCA CCAGCAGCTC TTGCCCAGAG CTGTGCAGTG
 TCCCTCGTGT CCTCCTATCG GCGTAGTGGT GGTCGTCGAG AACGGGTCTC GACACGTCAC
- 1201 CAGTGGCTGA TTCTATTAGA GAACGTATGC GTTATCTCCA TCCTTAATCT CAGTTGTTTG
 GTCACCGACT AAGATAATCT CTTGCATACG CAATAGAGGT AGGAATTAGA GTCAACAAAC
- 1261 CTTCAAGGAC CTTTCATCTT CAGGATTTAC AGTGCATTCT GAAAGAGGAG ACATCAAACA GAAGTTCCTG GAAAGTAGAA GTCCTAAATG TCACGTAAGA CTTTCTCCTC TGTAGTTTGT
- 1321 GAATTAGGAG TTGTGCAACA GCTCTTTTGA GAGGAGGCCT AAAGGACAGG AGAAAAGGTC
 CTTAATCCTC AACACGTTGT CGAGAAAACT CTCCTCCGGA TTTCCTGTCC TCTTTTCCAG
- 1381 TTCAATCOTG GAAAGAAAAT TAAATGTTGT ATTAAATAGA TCACCAGCTA GTTTCAGAGT AAGTTAGAAC CTTTCTTTTA ATTTACAACA TAATTTATCT AGTGGTCGAT CAAAGTCTCA
- 1441 TACCATGIAC GTATTCCACT AGCTGGGTTC TGTATTTCAG TTCTTTCGAT ACGGCTTAGG



			and the test of the control of the c			
	ATGGTACA1	TG CATAAGGT	GA TCGACCCA	AG ACATAAAGI	C AAGAAAGCTA	TGCCGAATCC
150	CONTRACTOR	3C	33 333 CTCTC	CA AGTGAGCAC	C MC> mmcccmm	
150						
	CATTACAGE	re Argreerr	IT TITGACAC	GT TCACTCGTG	G ACTAAGGCAA	CGGAACGAAT
156	L ACTCTAAAG	GC TCCATGTC	CT GGGCCTAA	aa togtataaa	A TCTGGATTTT	TTTTTTTT
				TT AGCATATTT		
	,				. HONCEINGEN	Managari
1621	TTTGCTCAT	TA TTCACATA	rg taaaccag	AA CATTCTATG	T ACTACAAACC	TGGTTTTTAA
	AAA CGAGTA	AT AAGTGTATA	AC ATTTGGTC	IT GTAAGATAC	A TGATGTTTGG	ACCAAAAATT
		·				
1631	. AAAGGAACT	A TOTTGOTAT	NG AATTAAAC	et Gtgtcgtgc:	GATAGGACAG	ACTGGATTTT
	TTTCCTTGA	T ACAACGATA	C TTAATTTG	LA CACAGCACG	A CTATCCTGTC	TGACCTAAAA
	•	•				
1741	TCATATTTC	TAAAAATTAA	T TCTGCCATT	T AGAAGAAGA	AACTACATTC	atgetttega
	AGTATAAAG	ATTATTA	A AGACGGTA:	A TOTTOTTOTO	TTGATGTAAG	TACCAAACCT
1801				T ATCTTCACTI		
	TCTCTATTT	G CYCLLLTCL	T CTCACCGGA	a tagaagtgaa	ATAGCTATTC	GGTCAAATAA
1861	TGTTTCATTC	G TGTACATTT	T TATATTCTC	C TTTTGACATT	ATAACTGTTG	GCTTTTCTAA
	ACAAAGTAAG	C ACATGTAAA	A ATATAAGAG	G AAAACTGTAA	TATTGACAAC	CGAAAAGATT
					•	
1921	TCTTGTTAAA	A TATATCTAT	T TTTACCAAA	G GTATTTAATA	TTCTTTTTTA	TGACAACTTA
	AGAACAATTI	T ATATAGATA	A AAATGGTTT	C CATAAATTAT	AAGAAAAAT	ACTGTTGAAT
1981	GATCAACTAT	T TTTTAGCTT	GTAAATTT	T CTAAACACAA	TTGTTATAGC	CAGAGGAACA
				A GATTTGTGTT	a contract of the contract of	
2041	AAGATGATAT	AAAATATTG	TGCTCTGAC	A AAAATACATG	TATTTCATTC '	TCGTATGGTG
				TTTTATGTAC		
2101	CTAGAGTTAG	ATTAATCTG	ATTTTAAAA	A ACTGAATTGG	AATAGAATTG	STARGTTGCA
				TGACTTAACC		
						oni i cancoi
2161	AAGACTTTTT	GAAAATAAT1	AAATTATCAT	ATCTTCCATT	CCTGTTATTG (GAGATGAAAA
				TAGAAGGTAA		
					,	
2221	TAAAAAGCAA	CTTATGAAAG	TAGACATTCA	GATCCAGCCA	TTACTARCOT A	ለተ ትር ር ጥጥጥጥጥ
				CTAGGTCGGT		
						12/00/2020
2281	TGGGGAAATC	TGAGCCTAGC	TCAGAAAAAC	ATAAAGCACC	TTGAAAAAGA C	ירזיככר ז כריזי
				TATTTCGTGG		
				1411160160	MACIFIET O	ARCCOLCOR
2341	TCCTGATLLA	GCGTGCTGTG	CTGTGCAGTA	GGAACACATC	ርጥኔ ጥጥጥ አጥጥር። ጥ	ら え アクテクテク
				CCTTGTGTAG		
			UNCHEGICAL	CCITOTOING	GRINNNIANC A	CIACAACAC
2401	GTTTTATTAT	СТТАВАСТСТ	GTTCCATACA	CTTGTATAAA	דבר אינונים אינו	ጉጥጥ እ ጥ ርጥ እ
				GAACATATTT A		
	AUGUMITUTE.		CAUGGIAIGI	GARCAINITT A	AIGIACCTAT A	reaatacat
2461	CAGAAGTATG	⊄ CTCT				
7-7-7	GTCTTCATAC					
		UNUA				

Figure 7. New Sequence + Incyte ESTs

1	atttgtttaa	ACCTTGGGAA	ACTGGTTCAG	GTCCAGGTTT	TGCTTTGATC	CTTTTCAAAA
_	TAAACAAATT	TGGAACCCTT	TGACCAAGTC	CAGGTCCAAA	ACGAAACTAG	GAAAAGTTTT
61	ACTGGAGACA	CAGAAGAGGG	CTTCTAGGAA	AAAGTTTTGG	GATGGGATTA	TGTGGAAACI
	TGACCTCTGT	GTCTTCTCCC	GAAGATCCTT	TTTCAAAACC	CTACCCTAAT	ACACCTTTGA
121	ACCCTGCGAT	TCTCTGCTGC	CAGAGCAGGC	TCGGCGCTTC	CACCCCAGTG	CAGCCTTCCC
	TGGGACGCTA	AGAGACGACG	GTCTCGTCCG	AGCCGCGAAG	GTGGGGTCAC	GTCGGAAGGG
181	CTGGCGGTGG	TGAAAGAGAC	TCGGGAGTCG	CTGCTTCCAA	AGTGCCCGCC	GTGAGTGAGC
	GACCGCCACC	ACTITCTCTG	AGCCCTCAGC	GACGAAGGTT	TCACGGGCGG	CACTCACTCG
+2		Me 1.	et SerLeuPh	e GlyLeuLeu	LeuLeuThrS	er AlaLeuAl
241	TCTCACCCCA	GTCAGCCAAA	TGAGCCTCTT	CGGGCTTCTC	CTGCTGACAT	CTGCCCTGGC
	AGAGTGGGGT	CAGTCGGTTT	ACTCGGAGAA	GCCCGAAGAG	GACGACTGTA	GACGGGACCG
+2	aGlyGlrArg	GlnGlyThrGl	ln AlaGluSe	AsnLeuSer	SerLysPheG	ln PheSerSe
301	CGGCCAGAGA	CAGGGGACTC	AGGCGGAATC	CAACCTGAGT	AGTAAATTCC	AGTTTTCCAG
	GCCGGTCTCT	GTCCCCTGAG	TCCGCCTTAG	GTTGGACTCA	TCATTTAAGG	TCAAAAGGTC
+2	rAsnLysGlu	GlnTyrGlyVa	al GlnAspPro	GlnHisGlu	ArgIleIleT	nr ValSerTh
361	CAACAAGGAA	CAGTACGGAG	TACAAGATCC	TCAGCATGAG	AGAATTATTA	CTGTGTCTAC
302	GITGITCCIT	GTCATGCCTC	ATGTTCTAGG	AGTCGTACTC	TCTTAATAAT	GACACAGATG
+2	rAsnGlySer	IleHisSerPi	o ArgPhePro	HisThrTyr	ProArgAsnT)	nr ValLeuVa
421	TAATGGALGT	ATTCACAGCC	CAAGGTTTCC	TCATACTTAT	CCAAGAAATA	CGGTCTTGGT
	ATTACCTTCA	TAAGTGTCGG	GTTCCAAAGG	AGTATGAATA	GGTTCTTTAT	GCCAGAACCA
+2	lTrpArgLeu	ValAlaValGl	lu GluAsnVal	TrpIleGln	LeuThrPheAs	sp GluArgPh
481	ATGGAGATTA	GTAGCAGTAG	AGGAAAATGT	ATGGATACAA	CTTACGTTTG	ATGAAAGATT
	TACCTCTAAT	CATCGTCATC	TCCTTTTACA	TACCTATGTT	GAATGCAAAC	TACTTTCTAA
+2	eGlyLeuGlu					
541	TGGGCTTGAA	GACCCAGAAG	ATGACATATG	CAAGTATGAT	TTTGTAGAAG	TTGAGGAACC
	ACCCGARCTT	CTGGGTCTTC	TACTGTATAC	GTTCATACTA	AAACATCTTC	AACTCCTTGG
+2	oSerAspGly	ThrIleLeuGl	y ArgTrpCya	GlySerGly	ThrValProGl	y LysGlnIl
601	CAGTGATGGA	ACTATATTAG	GCCCTGGTG	TGGTTCTGGT	ACTGTACCAG	GAAAACAGAT
	GTCACTACCT	TGATATAATC	CCGCGACCAC	ACCAAGACCA	TGACATGGTC	CTTTTGTCTA
+2	eSerLysGly	AsnGlnIleAr	g IleArgPhe	ValSerAsp	GluTyrPhePr	o SerGluFr
661	TTCTAAAGGA	AXTCAAATTA	GGATAAGATT	TGTATCTGAT	GAATATTTTC	CTTCTGAACC
- 	AAGATTTCCT	TTAGTTTAAT	CCTATTCTAA	ACATAGACTA	CTTATAAAAG	GAAGACTTGG

Fig. 7 (cont.)

+2	oGlyPheCys	IleHisTyrAsn IleV	alMet ProGlnPhe	ThrGluAlaVal SerProSe
721	AGGGTTCTGC TCCCAAGACG	ATCCACTACA ACATTG TAGGTGATGT TGTAAC	TCAT GCCACAATTC AGTA CGGTGTTAAG	ACAGAAGCTG TGAGTCCTTC TGTCTTCGAC ACTCAGGAAG
+2	•			AsnAlaIleThr AlaPheSe
781	AGTGCTACCC TCACGATGGG	CCTTCAGCTT TGCCAC GGAAGTCGAA ACGGTG	TGGA CCTGCTTAAT ACCT GGACGAATTA	AATGCTATAA CTGCCTTTAG TTACGATATT GACGGAAATC
+2				TrpGlnLeuAsp LeuGluAs
841	ATGGAACCTT	CTGGAATAAG CTATAG	AACT TGGTCTCTCT	TGGCAGTTGG ACTTAGAAGA ACCGTCAACC TGAATCTTCT
+2				ValPheGlyArg LysSerAr
901	TCTATA?AGG AGATATATCC	CCAACTTGGC AACTTC GGTTGAACCG TTGAAG	TTGG CAAGGCTTTT AACC GTTCCGAAAA	GTTTTTGGAA GAAAATCCAG CAAAAACCTT CTTTTAGGTC
+2	gValValAsp	LeuAsnLeuLeu Thro	luGlu ValArgLeu	TyrSerCysThr ProArgAs
961	AGTGGTGGAT TCACCACCTA	CTGAACCTTC TAACAG GACTTGGAAG ATTGTC	AGGA GGTAAGATTA	TACAGCTGCA CACCTCGTAA ATGTCGACGT GTGGAGCATT
+2				ThrIlePheTrp ProGlyCy
1021	CTTCTCAGTG GAAGAGTCAC	TCCATAAGGG AAGAAC AGGTATTCCC TTCTTC	TAAA GAGAACCGAT ATTT CTCTTGGCTA	ACCATTTCT GGCCAGGTG TGGTAAAAGA CCGGTCCAAC
+2				LeuHisAsnCys AsnGluCy
1081	TCTCCTGGTT AGAGGACCAA	AAACGCTGTG GTGGGA	ACTG TGCCTGTTGT	CTCCACAATT GCAATGAATG GAGGTGTTAA CGTTACTTAC
+2				ValLeuGlnLeu ArgProLy
1141	TCAATGTGTC AGTTACACAG	CCAAGCAAAG TTACTA GGTTCGTTTC AATGAT	AAAA ATACCACGAG MTTTT TATGGTGCTC	OTCCTTCAGT TGAGACCAAA CAGGAAGTCA ACTCTGGTTT
+2	sThrGly/al	ArgGlyLeuHis Lyss	SerLeu ThrAspVal	AlaLeuGluHis HisGluGl
1201	GACCGGTGTC CTGGCCACAG	AGGGGATTGC ACAAAA TCCCCTAACG TGTTTA	CACT CACCGACGTG	GCCCTGGAGC ACCATGAGGA CGGGACCTCG TGGTACTCCT
+2	nCheyebebols	ValCysArgGly Ser	ChrGly Gly	,
1261	GTGTGACTGT CACACTGACA	GTGTGCAGAG GGAGCA CACACGTCTC CCTCGT	CAGG AGGATAGCCG CTCC TCCTATCGGC	CATCACCACC AGCAGCTCTT GTAGTGGTGG TCGTCGAGAA
1321	GCCCAGAGCT CGGGTCTCGA	GTGCAGTGCA GTGGCT	rgatt Ctattagaga Actaa Gataatctct	ACGTATGCGT TATCTCCATC TGCATACGCA ATAGAGGTAG
1381	CTTAATCTCA GAATTAGAGT	GTTGTTTGCT TCAAGG CAACAAACGA AGTTCG	BACCT TTCATCTTCA CTGGA AAGTAGAAGT	GGATTTACAG TGCATTCTGA CCTAAATGTC ACGTAAGACT

Fig. 7 (cont.)

1441	AAGAGGAGAC	ATCAAACAGA	attaggagtt	GTGCAACAGC	TCTTTTGAGA	GGAGGCCTAA
	TTCTCCTCTG	TAGITTGTCT	TAATCCTCAA	CACGTTGTCG	AGAAAACTCT	CCTCCGGATT
1501	AGGACAGGAG	AAAAGGTCTT	CANTCGTGGA	AAGAAAATTA	AATGTTGTAT	TAAATAGATC
1301	TCCTGTCCTC	TTTTCCAGAA	GTTAGCACCT	TTCTTTTAAT	TTACAACATA	ATTTATCTAG
1561	ACCAGCTAGT	TTCAGAGTTA	CCATGTACGT	ATTCCACTAG	CTGGGTTCTG	TATTTCAGTT
	TGGTCGATCA	AAGTCTCAAT	GGTACATGCA	TAAGGTGATC	GACCCAAGAC	ATAAAGTCAA
1621	CTTTCGATAC	GGCTTAGGGT	AATGTCAGTA	CAGGAAAAA	ACTGTGCAAG	TGAGCACCTG
		CCGAATCCCA				
1691	ATTCCGTTGC	CTTGGCTTAA	CTCTAAAGCT	CCATGTCCTG	GGCCTAAAAT	CGTATAAAAT
	•	GAACCGAATT				
1741	CTGGATTTTT	TTTTTTTTT	TTGCGCATAT	TCACATATGT	AAACCAGAAC	ATTCTATGTA
		AAAAAAAAA				
1801	CTACAAACCT	GGTTTTTAAA	AAGGAACTAT	GTTGCTATGA	ATTAAACTTG	TGTCATGCTG
		CCAAAAATTT				
1861	ATAGGACAGA	CTGGATTTTT	CATATTTCTT	ATTAAAATTT	CTGCCATTIA	CONCOUNTERCO
		GACCTAAAAA				
1921	ACTACATTCA	TGGTTTGGAA ACCAAACCTT	GAGATAAACC	TGAAAAGAAG	AGIGGCCIIA MCACCCCAAM	ACARCALA ACARCACAAA
	TGATGTAAGT	ACCAAACCTT	CTCTATTTGG	ACTIVICITE	ICACCOGANI	AOMIOTOLET.
1001	ATCGATAAGT	Cactura ውጥ	GTTTCATTGT	GTACATTTTT	ATATTCTCCT	TTTGACATTA
TABT	TAGCTATTCA	GTCAAATAAA	CAAAGTAACA	CATGTAAAAA	TATAAGAGGA	AAACTGTAAT
2041	TAACTGTTGG	CTTTTCTAAT	CTTGTTAAAT	ATATCTATTT	TTACCAAAGG	TATTTAATAT
	ATTGACAACC	Gaaaagatta	GAACAATTTA	TATAGATAAA	AATGGTTTCC	ATAAATTATA
2101	TCTTTTTAT	GACAACTTAG	ATCAACTATT	TTTAGCTTGG	TAAATTTTTC	TAAACACAAT
		CTGTTGAATC				
2161	TGTTATAGCC	AGAGGAACAA	agatgatata	AAATATTGTT	GCTCTGACAA	AAATACATGT
•		TCTCCTTGTT				
2221	ATTTCATTCT	CGTATGGTGC	Tagagttaga	TTAATCTGCA	TTTTAAAAAA	CTGAATTGGA
		GCATACCACG				
2281	atagaattgg	TAAGTTGCAA	AGACTTTTTG	AAAATAATTA	AATTATCATA	TCTTCCATTC
					•	AGAAGGTAAG
2341	CTGTTATTGG	AGATGAAAAT	AAAAAGCAAC	TTATGAAAGT	AGACATICAG	MYCCAGCCA1
		TCTACTTTTA				
2401	TACTAACCTA	TTCCTTTTTT	GGGGAAATCT	GAGCCTAGCT	CAGAAAAACA	ATTTCCTCCA
		AAGGAAAAA				
2461	TGAAAAAGAC	AACCGTCGAA	CCIGATAAAG	CG1GC1G1GC	ACACGTCATC	CTTGTGTAGG
2521	TATTTATTGT	GATGTTGTGG	TTTTATTATC	TIRARCICIG	ACCUPATOR	AACATATTTA
	ATAAATAACA	CTACAACACC	AAAATAATAG	MATITICACAC	MAGNIMICIO	

Fig. 7. (cont.)

AAAACCCCTC TTTTAA

2581	ACATGGATAT	TTTTATGTAC	AGAAGTATGT	CTCTTAACCA	GTTCACTTAT	TGTACTCTGG
	TGTACCTATA	AAAATACATG	TCTTCATACA	GAGAATTGGT	CAAGTGAATA	ACATGAGACC
2641	CAATTTAAAA	GAAAATCAGT	AAAATATTTT	GCTTGTAAAA	TGCTTAATAT	CGTGCCTAGG
	GTTAAATTTT	CTTTTAGTCA	TATATATTT	CGAACATTTT	ACGAATTATA	GCACGGATCC
2701	TTATGTGGTG	ACTATTTGAA	TCAAAAATGT	ATTGAATCAT	Caaataaaag	AATGTGGCTA
	AATACACCAC	TGATAAACTT	AGTTTTTACA	TAACTTAGTA	Gittatitic	TTACACCGAT
2761	TTTTGGGGAG	TTAAAA				

Figure 8.	Additional ligonucleotides used for amplification of entire coding region
5'-1	TTTGTTTAAACCTTGGGAAACTGG
5'-2	GTCCAGGTTTTGCTTTGATCC

Figure 9. DNA Sequence Of Clones 4 & 7, Identical Clones Containing The Entire Open Reading Frame

1	TTTGTTTANA CCTTGGGANA CTGGTTCAGG TCCAGGTTTT GCTTTGATCC TTTTCANA ANACANATTT GGANCCCTTT GACCAGGTCC AGGTCCANAN CGNANCTAGG NAMAGTTT	AA. PTT
61	CTGGAGACAC AGAAGAGGGC TCTAGGAAAA AGTTTTGGAT GGGATTATGT GGAAACTAGACCTCTGTG TCTTCTCCCG AGATCCTTTT TCAAAACCTA CCCTAATACA CCTTGAT	icc icc
121	CTGCGATTCT CTGCTGCCAG AGCAGGCTCG GCGCTTCCAC CCCAGTGCAG CCTTCCCCGACGCTAAGA GACGACGGTC TCGTCCGAGC CGCGAAGGTG GGGTCACGTC GGAAGGGC	TG AC
181	GCGGTGGTGA AAGAGACTCG GGAGTCGCTG CTTCCAAAGT GCCCGCCGTG AGTGAGCT CGCCACCACT TTCTCTGAGC CCTCAGCGAC GAAGGTTTCA CGGGCGGCAC TCACTCGA	CT LGA
+2	MetSer LeuPheGly LeuLeuLeu LeuThrSerAla LeuAla	iG1
241	CACCCCAGTC AGCCAAATGA GCCTCTTCGG GCTTCTCCTG CTGACATCTG CCCTGGCCGGTGGGGTCAG TCGGTTTACT CGGAGAAGCC CGAAGAGGAC GACTGTAGAC GGGACCGG	:GG :CC
+2	yGlnArgGln GlyThrGlnAla GluSerAsn LeuSerSer LysPheGlnPhe SerSer	.ys
301	CCAGAGACAG GGGACTCAGG CGGAATCCAA CCTGAGTAGT AAATTCCAGT TTTCCAGC GGTCTCTGTC CCCTGAGTCC GCCTTAGGTT GGACTCATCA TTTAAGGTCA AAAGGTCG	AA TT
+2	nLysGluGln AsnGlyValGln AspProGln HisGluArg IleIleThrVal SerThr	`A =
361	CAAGGAACAG AACGGAGTAC AAGATCCTCA GCATGAGAGA ATTATTACTG TGTCTACT GTTCCTTGTC TTGCCTCATG TTCTAGGAGT CGTACTCTCT TAATAATGAC ACAGATGA	AA TT
+2	nGlySerIle HisserProArg PheProHis ThrTyrPro ArgAsnThrVal LeuVal	Tr
421	TGGAAGTATT CACAGCCCAA GGTTTCCTCA TACTTATCCA AGAAATACGG TCTTGGTA ACCTTCATAA GTGTCGGGTT CCAAAGGAGT ATGAATAGGT TCTTTATGCC AGAACCAT	TG AC
+2	pArgLeuVal AlaValGluGlu AsnValTrp IleGlnLeu ThrPheAspGlu ArgPhe	Gl
431	GAGATTAGTA GCAGTAGAGG AAAATGTATG GATACAACTT ACGTTTGATG AAAGATTT CTCTAATCAT CGTCATCTCC TTTTACATAC CTATGTTGAA TGCAAACTAC TTTCTAAA	GG CC
+2	yLeuGluAsp ProGluAspAsp IleCysLys TyrAspPhe ValGluValGlu GluPro	Se
541	SCTTGAAGAC CCAGAAGATG ACATATGCAA GTATGATTTT GTAGAAGTTG AGGAACCC. CGAACTTCTG GGTCTTCTAC TGTATACGTT CATACTAAAA CATCTTCAAC TCCTTGGG	AG TC
+2	rAspGlyThr IleLeuGlyArg TrpCysGly SerGlyThr ValProGlyLys GlnIle	Se
601	TGATGGAACT ATATTAGGGC GCTGGTGTGG TTCTGGTACT GTACCAGGAA AACAGATT ACTACCTTGA TATAATCCCG CGACCACACC AAGACCATGA CATGGTCCTT TTGTCTAA	IC AG
+2	LysGlyAsn GlnIleArgIle ArgPheVal SerAspGlu TyrPheProSer GluPro	31
661	PAAAGGAAAT CAAATTAGGA TAAGATTTGT ATCTGATGAA TATTTTCCTT CTGAACCAC	3G

Fig. 9 (cont.)

	ATTTCCTTTA	GTTTAATCCT	ATTCTAAACA	TAGACTACTT	ATAAAAGGAA	GACTTGGTEC
+2	yPheCysI1e	HisTyrAsnI	le ValMetPro	GlnPheThr	GluAlaValS	er ProSerVa
					ar records	CTCCTTCAGT
721	GTTCTGCATC	CACTACAACA	TTGTCATGCC	ACARTTCACA	GAAGCIGIGA	GICCIICAGI
		GTGATGTTGT				
+2	lLeuPrc?ro	SerAlaLeuP:	ro LeuAsple	ı LeuAsnAsn	AlaIleThrAl	a PheSerTh
		TCAGCTTTGC	CACTCCACCT	CCTTAATAAT	GCTATAACTG	CCTTTAGTAC
781	GCTACCCCCT	AGTCGAAACG	CACIGORCCI	GC111M11M11	OCAMARECA C	CCANATCATG
+2		LeulleArgT				
841	CTTGGAAGAC	CTTATTCGAT	ATCTTGAACC	AGAGAGATGG	CAGTTGGACT	TAGAAGATCT
047	CITOORGE	GAATAAGCTA	TAGAACTTGG	TCTCTCTACC	GTCAACCTGA	ATCTTCTAGA
				4		
+2		ThrTrpGlnL				
901	ATATAGGCCA	ACTTGGCAAC	TTCTTGGCAA	GGCTTTTGTT	TTTGGAAGAA	AATCCAGAGT
		TGAACCGTTG				
+2	1ValAspLeu	AsnLeuLeuT	nr GluGluVal	ArgLeuTyr	SerCysThrPr	o ArgAsnPh
						CMCCM3 3 CMM
961	GGTGGATCTG	AACCTTCTAA	CAGAGGAGGT	AAGATTATAC	AGCTGCACAC	CICGIAACII
		TTGGAAGATT				
+2	eSerValSer	IleArgGluG	lu Leulysarg	ThrAspThr	IlePheTrpPr	o GlyCysLe
1021	CTCAGTGTCC	ATAAGGGAAG	AACTAAAGAG	AACCGATACC	ATTTTCTGGC	CAGGTTGTCT
2002	GAGTCACAGG	TATTCCCTTC	TIGATTICTC	TTGGCTATGG	TAAAAGACCG	GTCCAACAGA
+2	uLeuValiys	ArgCysGlyG	ly AsnCysAla	CysCysLeu	HisAsnCysAs	n GluCysGl
1091	CCTGGTTAAA	CGCTGTGGTG	GGAACTGTGC	CTGTTGTCTC	CACAATTGCA	ATGAATGTCA
	GGACCAATTT	GCGACACCAC	CCTTGACACG	GACAACAGAG	GTGTTAACGT	TACTTACAGT
+2	nCysVal3To	SerLysValT	ir LysLysTyr	HisGluVal	LeuGlnLeuAr	g ProLysTh
		AGCAAAGTTA	CO3 1 3 3 3 3 7 3	CCACCACCTC	CTTCAGTTGA	GACCAAAGAC
1141	ATGTGTCCCA	AGCAAAGTTA	CTAAAAAATA	CCACGAGGIC	CARCARON CO	CACCAGACAC
		TCGTTTCAAT				•
+2	rGlyValArg	GlyLeuHisLy	s SerLeuThr	AspValAla	LeuGluHisHi	s GluĢluCy
1201	CGGTGTCLCG	GGATTGCACA	AATCACTCAC	CGACGTGGCC	CTGGAGCACC	atgaggagtg
	GCCACAGTCC	CCTAACGTGT	TTAGTGAGTG	GCTGCACCGG	GACCTCGTGG	TACTCCTCAC
+2	skspCysVal	CysArgGlySe				
				>		
1261	TGACTGTGTG	TGCAGAGGGA	GCACAGGAGG	ATAGCCGCAT	CACCACCAGC	AGCTCTTGCC
		ACGICTCCCT				
1321	CAGAGCTGTG	CAGTGCAGTG	GCTGATTCTA	TTAGAGAACG	TATGCGTTAT	CTCCATCCTT
1941	CTCTCCACAC	GTCACGTCAC	CGACTAAGAT	AATCTCTTGC	ATACGCAATA	GAGGTAGGAA
1381	AATCTCAGIT	GTTTGCTTCA	AGGACCTTTC	ATCTTCAGGA	TTTACAGTGC	ATTCTGAAAG

Fig. 9 (cont.)

TTAGAGTCAA CAAACGAAGT TCCTGGAAAG TAGAAGTCCT AAATGTCACG TAAGACTTTC

1441 AGGAGACATC AAACAGAATT AGGAGTTGTG CAA TCCTCTGTAG TTTGTCTTAA TCCTCAACAC GTT

Figure 10. Predicted Full-length Polypeptide Sequence

1	MSLFGLLLLT	SALAGOROGT	QAESNLSSKF	O ESZNKEGYĞ	VQDPQHERII
51	TVSTNGSIHS	PREPHTYPRN	TVLVWRLVAV	EENVWIQLTF	DERFGLEDPE
101	DDICKYEFVE	VEEPSDGTIL	GRWCGSGTVP	GKQISKGNQI	RIRFVSDEYF
151	PSEPGFCIHY	NIVMPQFTEA	VSPSVLPPSA	LPLDLLNNAI	TAFSTLEDLI
201	RYLEPERWQL	DLEDLYRPTW	QLLGKAFVFG	RKSRVVDLNL	LTEEVRLYSC
		EELKRTDTIF			

VTKKYHEVLQ LRPKTGVRGL HKSLTDVALE HHEECDCVCR GSTGG

Figure 11	Alignment of VEGF-X with Other VEGFs	100 A
	. 20 . 40 . 60	
VEGF_HUMAN :		:
VEGB_HUMAN :		i
VECD_HUMAN :	TO THE PROPERTY OF THE PROPERT	: 6
990126vegx :	MSTITTTSALAGIRGGTGVESHTRSKEGISSUKGMOAADLAGTILOOLOOTIOTTA	
	. 120	
VEGF_HUMAN :	. 80 , 100 . 120	:
PLGP_HUMAN :		:
VEGB_HUMAN : VEGC_HUMAN :		: 1
VECD_RUMAN :		: 13
990126vogx :	NAME AND TAKE TO A STATE OF THE	
	140 • 160 • 180 • 200	
VEGF_HUMAN :		:
PLCF_KUMAN : VEGB_KUMAN :		1
	ALLISPAZAPAAAAFESGLDLSDAEPDAGZATATASKDLEQUKSVSSVEDELV	
VEGD_HUMAN : 990126vegx :	SKGNGIRIRZVSDEYFPSEPGZCIHYNIVHPQFTEAVSPSVLPPSALPLDLLNNAITAFSTLEDLIRY	: 20.
	• 220 • 240 • 250 • The state of the state o	: 73
VEGF_RUNAN :	WYENSLATELYLHAKWSQAAPMAEGGGUNHASWEFEEL-VE STYAALEH EE VE FEELVE WYENSLATE HEEL WEEL AFELVE STYFEEL WEEL WEEL WEEL WEEL WEEL WEEL WEEL	. 72
VECE_HUMAN :	SPILARIE LAALEQ LAPAR PVSQ PDAPGHORK SWS-VET ATTO TRAVERS SWS-VATURES	: 65
VEGC_HUMAN :	LRX33WQHNREQANLNSRTEETIKFAAAHYNT	: 13:
990126vegx :	WYENSLA ELYLHAKWSKAAPMAEGGGONHH STFOO-VG TYTHEIT LOOG YPDEIEYI FOFFIC LY ALL LO WS YFEVEHME FOFFIC LA CLAPAC POWALSAGNGSSEVE FPOE-VG TY ALL LO WS YFEVEHME SPLENDELLAL BOLAPAC POWALSAGNGSSEVE FOFFIC LATORITY OF TWO ENGLANCES FOR TOWN FOR TWO ENGLANCES WE WITH AT CERTAVE CONTINUES CONTINUES TO THE RESULT OF THE WASHING TOWN FOR THE STREET WASHINGTON FOR THE WASHINGTON FOR THE LOKATOTIS WASHINGTON FOR THE LOKATON FOR THE LOKATOTIS WASHINGTON FOR THE LOKATON FOR THE LOKATO	: 27.
	244	
	NO STATE OF THE ST	: 13;
VEGF_HUMAN : PLGP_HUMAN :	S S S S S S S S S S S S S S S S S S S	: 131
VECS_HUMAN :	V 5 PAD-DG STEN CHORNESH WP5 SQC E STANTS REL	21:
VEGC_RUMAN : VEGD_NUMAN :	K P S Y NS CONT NEST SY OKT HE TOP LT SUP PECUP NOVAN TO KY L W C K S NCA LHNCNECH S V F KY H S SO SPKT GVRGLK X S T D A LEK SE D IV	: 192 : 336
990126vegx :	M C TIT K M M CY THUCHEC MAN S KAN	. 550
	. 320 • 469	
VEGF_HUHAN :	######################################	: 165
PLCF KUMAN :	FERSKWER STANFORM	: 135
VEGS_HUMAN : VEGC_HUMAN :	PRANCE STORE OF A THE OFFICE OF THE OFFICE OFFICE OFFICE OFFICE OFFICE OFFICE OFFICE OFFICE OFFICE O	: 280
VEGD_HUMAN :	Zikinijilikijidi i bengambana na	345
990126vegx :	•••	
	- 440 . 460	
VEGF_RUMAN :		: 183
PLGF_HUMAN : VEGB_HUMAN :	PLCPRCTCHEROR	155
VEGC_HUMAN :	GPNRELDEET CQCVCRAGLAPASCGPHKELDANSCQCVCKNKLFPSQCGANREFDSNTCQCVCKRTCP	285
VEGD_HUMAN : 990126vegx :	-EDRSXLQEPALCGPHMXFDEDRCECVCKTPCPXDL!QHPX	: -
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
	48; • 500 • 520 • 540	. 215
	TOXT-SCHUTDSR#KARQLEUNERTCRCDK9R8	
		, 18c
VEGC_HUMAN :	SMIPLUP SMIACE ETE SPOKCLLKGKKFHKQTCSCIKKPCINKUMCLFFSISE VCALPARIONE	
990126vegx :	NISITECK 23 DE L'OCCURRATE REDICCION DE CALLACTE DE CA	: •
	•	
VEGF_HUMAN : PLGF_HUMAN :		
VECB_HUMAN :	••••••	
VECC_HUMAN :	CNS: 419	
990126 vagx :		

Figure 12. Variant Polypeptide Sequences

				20	+	•	40	*	60		
FL_seq clone41 clone20				ÇRÇGTÇ					MGSTHRSSW. IMBRITARI IMBRITARI IMBRITARI	:	63 63 63
FL_seq clone41 clone20	:						EDICKYDE		120 STILGRECOS STILGRECOS STILGRECOS	-	126 126 126
FL_seq clcne41 clcne20	:	GTVEGKÇ) GTVEGKÇ) GTVEGKÇ)	SKONCL	RIRFVSTI	* EAB6262 EAB6262 EAB626	160 NRGGKIIK	HTS	18		:	189 167 189
FL_seq clone41 clone20	:		200		2	20	•	240	EVRLYSCTP	: :	252 _ 243
FL_seq clcne41 clcne20	: :	26 RNFSVSI	C FART KRI	ETIFWPG	280 CLLVKRCG	GNCACCL	HNCNECÇC	300 VPSKVTXXY	# <u>###</u>	:	315 - 252
FL_seq clcne41 clone20	:	320			340	: 345 : : 282					

Figure 13. Primers for Expression f VEGF-X

E.coli expression of domain-

vegx-6 AATTGGATCCGAGAGTGGTGGATCTGAACC

vegx-7 AATTGGATCCGGGAAGAAAATCCAGAGTGG

vegx-8 GGTTGAATTCATTATTTTTAGTAACTTTGCTTGGGACAC

vegX-9 AATTGAATTCATTATCCTCCTGTGCTCCCTC

Baculovirus/insect cell expression of full-length protein-

vegbac1
AATTGGATCCGGAGTCTCACCATCACCATCATGAATCCAACCTGAGTAGTAAATTC

vegbac2 AATTGAATTCGCTATCCTCTGTGCTCCCTCTGC

```
INCYTE
                     ССИО
 1 >3993180Hl
                     GCCCTGGAGCACCATGAGGNGTGTGACTGTGT
                                                     AGGGAGCACAGGAGGATAGCC
 2 CACAAATCACTCACCGAC
 3 GCATCACCACCAGCAGCTCTTGCCCAGAGCTGTGCAGTGCAGTGCTGATTCTAT .... AGAACGTATGCGTTATCTCCAT
  CCTTAATCTCAGTTGTTTGCTTCAAGGACCTTTCATCTTCAGGATTTACAGTGCATTCTGAAAGAGGACACATCAAACAG
 5 ARTTAGGAGTTGTGCAACAGCTCTTTTGAGAGGAGGCTAAAGGACAGGAGAANAGGTCTT
                               INCYTE
                 CONCNCTOL
 7 TGCAGTGCAGTGGCTGATTCTATTAGAGAACGTATGCGTTATCTCCATCCTTAATCTCAGTTGTTTGCTTCAAGGACCTT
 6 >3510192H1
  TCATCTTCAGGATTTACAGTCCATTCTGAAAGAGGAGACATCAAACAGAATTAGGAGTTGTGCAACAGCTCTTTTGAGAG
 10 TCAGAGTTACCATGTACGTATTCCACTAGCTGGGTTCTGTATTT
                               INCYTE
11 >2559870H1
                 ADRETUTGI
  13 TGAGGAGTGTGACTGTGTGCAGAGGGAGCACAGGGGGATAGCCGCATCACCACCAGCAGCTCTTGCCCAGAGCTGTGC
14 AGTGCAGTGGCTGATTCTATTAGAGAACGTATGCGTTATCTCCATCCTTAATCTCAGTTGTTTGCTTCAAGGACCTTTCA
15 TOTTCAGGATTTACAGTGCATTCTGAAAGAGGAGA
                               INCYTE
                LUNGTUTOS
17 GOAGGATAGCCGCATCACCAGCAGCTCTTGCCCAGAGCTGTGCAGTGCAGTGGCTGATTCTATTAGAGAACGTATGC
16
  >397976761
18 GTTATCTCCATCCTTAATCTCAGCTGTTTGCTTCAAGGACCTTTCATCTTCAGGATTTACAGTGCATTCTGAAAGAGGAG
  ACATCARACAGARTTAGGAGTTGTGCAACAGCTCTTTTGAGAGGAGGCCTARAGGACAGGAGARAAGGTCTTCAATCGTG
19
20 GAAAGAANATTAAATGTTCTATTAAATAGACACCAGCT
                LUNGTUT08
                              INCYTE
22 GOAGGATAGCCGCATCACCAGCAGCTCTTGCCCAGAGCTGTGCAGTGCAGTGCTGATTCTATTAGAGAACGTATGC
21 >3980011H1
23 GTTATCTCCATCCTTAATCTCAGTTGTTTGCTTCAAGGACCTTTCATCTTCAGGATTTACATGCATTCTGAAAGAGGAGA
24 CATCAAACAGAATTAGGAGTTGTGCAACAGCTCTTTTGAGAGGAGGCCTAAAGGACAGGAGAAAAGGTCTTCAATCGTGG
25 AAAGAAAATTAAATGTTGTATTAAATAGATCACCA
                BLADDIT01
                               INCYTE
26 >4825396Hl
27 GAGAACCGATACCATTTTCTGGCCAGGTTGTCTCCTGGTTAAACGCTGTGGGGAACTGTGCCTGTTGTCTCCACAATT
28 GCAATGAATGTCAATGTGTCCCAAGCAAAGTTACTAAAAAATACCACGAGGTCCTTCAGTTGAGACCAAAGACCGGTGTC
30 AGGATAGCCGCATCACCACCA
                BONEUNTCL
                              INCYTE
  AGALANTCCAGAGTGGTGGATCTGAACGTTCTAACAGAGGGTAAGATTATACAGCTGCACACCTCGTAACTTCTCAGT
31 >3073703H1
33 GTCCATAAGGGAAGAACTAAAGAGAACCGATACCATTTTCTGGCCAGGTTGTCCTGGTTAAACGCTGTGGTAGGAACT
34 GTGCCTGTTGTCTCCACAATTGCAATGAATGTCAATGTGTCCCAAGCAAAGTTACTAAAAAATACCACGAGGTCCTTCAG
35 TTGAGACCAAAGACCGGTGTCAGGGGATTGCACAAATCA
                 PLACNOTC2
                              INCYTE
37 AGGAAATCAAATTAGGATAAGATTGTATCTGATGAATATTTTCCTTCTGAACCTTCTAACAGAGGAGGTAAGATTATAC
  >1302516H1
38 AGCTGCACACCTCGTAACTTCTCAGTGTCCATAAGGGAAGAACTAAAGAGAACCGATACCATTTTCTGGCCAGGTTGTCT
40 ACTARARATACCACGAGGTCC
                HEAAMCTOL
                              INCYTE
42 ATTTCATCTTCAGGATTTACAGTCCATTCTGAAANAGGAGAAATCAAACANAATTAGGAGTTGTGCAACAGCTCTTTTGA
41 >3684109H1
43 GAGGAGGCCTAAAGGACAGGAGAAAAGGTCTTCAATCGTGGAAANAAAATTAAATGTTGTATTAAATAGATCACCAGCTA
44 GTTTCAGAGTTACCATGTACGTATTCCACTAGCTGGGTTCTGTATTTCAGTTCTTCGATACGGCTTAGGGTAATGTCAG
45 TACAGGAAAAAACTGTGCAAGTGAGCACCTGATTCCGTTGCCTTGCTT
                 BRAIHCTC1
                               INCYTE
46 >471318881
49 CTCTTGCCCAGAGCTGTGCAGTGCAGTGGCTGATTCTATTAGAGAACGTATGCGTTATCTCCATCCTTAATCTCAGTTGT
50 TTGCT
                KERANCTC1
                              INCYTE
51 >45882391
52 ANGAGTTGCCCAGAGCTGTGCAGTGCAGTGGCTGATTCTATTAGAGAACGTATGCGTTATCTCCATCCTTAATCTCAGTT
53 GTTTGNTTCAAGGACCTTTCATCTTCAGGATTTACAGTGCATTCTGAAAGAGGAGACATCAAACAGAATTAGGAGTTGTG
  CAACACCTCTTTTGAGAGGAGGCCTAAACCNCAGGACAAAAGGTCTTCAATCGTGGAAAGAAAATTAAATGTTGTATTAA
55 ATAGATO
                              INCYTE
56 >1303909H1
                PLACNOT02
  AGGAAATCAAATTAGGATAAGATTTGTATCTGATGAATATTTTCCTTCTGAACCTTCTAACAGAGGAGGTAAGATTATAC
SB AGCTGCACACCTCGTAACTTCTCAGTGTCCATAAGGGAAGAACTAAAGAGAACCGATACCATTTTCTGGCCAGGTTGTCT
  INCLIE
                OVARNOT09
60 >2739211H1
61 GTGCATTCTGAAAGAGGAGACATCAAACAGAATTAGGAGTTGTGCAACAGCTCTTTTGAGAGGAGGCCTAAAGGACAGGA
62 GAAAAGGTCTTCAATCGTGGAAAGAAATTAAATGTTGTATTAAATAGATCACCAGCTAGTTTCAGAGTTACCATGTACG
  TATTCCACTAGCTGGGTTCTGTATTTCAGTTCTTTCGATACGGCTTAGGGTAATGTCAGTACAGGAAAAAACTGTGCAA
63
64 GTGAGCACCTGAT
                              INCYTE
  >3325591X1
                PTHYNOT03
65
67 AAATAGATCACCAGCTAGTTTCAGAGTTACCATGTACGTATTCCACTAGCTGGGTTCTGTATTTCAGTTCTTTCGATACG
68 GCTTAGGGTAATGTCAGTACAGGAAAAAACTGTGCAAGTGAGCACCTGATTCCGTTGCCTTAACCCTAAAGCNCC
69 ATGTCNNGGGCNAAAANCGAAAAAT
                              INCYTE
                SMCCNOSG1
70 >3733565H1
71 CCTTAATCTCAGITGTTTGCTTCAAGGACCTTTCATCTTCAGGATTTACAGTGCATTCTGNAAGANGAGACATCAAACAG
72 AATTAGGNGTTGTGCAAAAGCTCTTTTGAGAGGAGGCCTAAAGGACAGGAGAAAAGGTCTNCAATCGTGGAAAGNAAATT
73 AAATGTTGTATNAAATNGATCACCAGCTAGTTTCAGAGTTACCATGTACGTATTCCACTAGCTGGGNCNGTATTCAGTCT
74 TTCGGAACGGCTTAGGGTAATGTCAGTACAGGANAAAAACTGTGCAGTGAG
                              INCYTE
75 >3554223H1
                SYNONOTS:
```

87 ATGTCCTGGGCCTAAAATCGTATA

Fig 14 (contid)

Fal INCYTE i >2054575H1 BEP TARACTTATTATAAAATT TAAACTTGTGTCGTGCTGATAGGACAGACTGGA 2 AAAGGAACTATGTTGCTAT Eagtgcccttatcttcactt J TCTGCCATTTAGAAGAAGAGAACTACATTCATGGTTTGGAAGAGATAAACCTGAAA 4 TATCGATAAGTCAGTTTATTTGTTTCATTGTCTACATTTTTATATTCTCCTTTTGACATTATAACTGTTGGCTTTTCTAA TCTTGTTAAATATATCTATTTTACCAAAGGTATTTAATATTCTTTTTA CACAAATCACTCACCGACGTCGCCCTGGACCACCATQAGGNGTGTGACTGTGTGTGCAGAGGAGCACACGAGGATAGCC INCYTE 6 >3993180H1 8 GCATCACCAGCAGCAGCTCTTGCCCAGAGCTGTGCAGTGCAGTGCGTGATTCTATTAGAGAACGTATGCGTTATCTCCAT CCTTAATCTCAGTTGTTTGCTTCAAGGACCTTTCATCTTCAGGATTTACAGTGCATTCTQAAAGAGGAGACATCAAACAG 10 AATTAGGAGTTGTGCAACAGCTCTTTTGAGAGGAGGGCTAAAGGACAGGAGAANAGGTCTT TGCAGTGCACTCGCTGATTCTATTAGAGAACGTATGCGTTATCTCCATCCTTAATCTCAGGTTGTTTGCTTCAAGGACCTT INCYTE 11 >3510192H1 13 TCATCTTCAGGATTTACAGTGCATCTGAAAGAGGAGACATCAAACAGAATTAGGAGTTCTGCAACAGCTCTTTTGAGAG TCAGAGTTACCATGTACGTATTCCACTAGCTGGGTTCTGTATTT 17 CTTGTTAAATATATCTATTTTTACCAAAGGTATTTAATATTCTTTANTTATGACAACTTAGATCAACTATTTTTAGCTTG 18 GTAAATTTTTCTAAACACAATTGTTATAGCCAGAGGAACAAAGATGATATAAAATATTGTTGCTCTGACAAAAATACATG TATTTCATTCTCCTATGGTGCTAGAGTTAGATTAATCTGCATTTTAAAAAACTGAATTGGAATAGAATTGGTAAGTTGCA 20 AAGACTTTTTGANAATAATTAAATTATCATATCTTCCATTCCTGTTATTGGGGGAGAAAAT 23 TGAGGAGTGTGACTGTGTGCAGAGGGAGCACAGGGGGGGATAGCCGCATCACCAGCAGCAGCTCTTGCCCAGAGCTGTGC 24 AGTGCAGTGGCTGATTCTATTAGAGAACGTATGCGTTATCTCCATCCTTAATCTCAGTTGTTTGCTTCAAGGACCTTTCA 35 TCTTCAGGATTTACAGTGCATTCTGAAAGAGGAGA 27 TTAXAAAGGAACTATGTTCCTATGAATTAAACTTGTGTCATGCTGATAGGACAGACTCGATTTTTCATATTTAAAAA 28 AATTTCTGCCATTTAGAAGAAGAAACTACATTCATGGTTTGGAAGAGATAAACCTGAAAAQAAGAGTGGCCTTATCTTC 29 ACTITATCGATAAGTCAGTTTATTTGTTTCATTGTGTACATTTTTATATTCTCCTTTTGACATTATAACTGTTGGCTTTC 30 TAATCIGTTAAATATATCTATTTTTACCAAAGGTATTTAATATTCTTT 32 GGAGGATAGCCGCATCACCACCACCACCACCACCACCAGAGCTGTGCAGTGCAGTGCAGTGCTGATTCTATTAGAGAACGTATGC 33 GTTATCTCCATCCTTAATCTCAGTTGTTTGCTTCAAGGACCTTTCATCTTCAGGATTTACAGTGCATTCTGAAAGAGGAG ACATCAAACAGAATTAGGAGTTGTGCAACAGCTCTTTTGAGAGGGGCCTAAAGGACAGGACAAAAGGTCTTCAATCGTC 34 35 GAAAGAANATTAAATGTTGTATTAAATAGACACCAGCT 37 GGAGGATAGCCGCATCACCAGCAGCTCTTGCCCAGAGCTGTGCAGTGCAGTGGCTGATTCTATTAGAGAACGTATGC 36 >3980C11H1 38 GTTATCTCCATCCTTAATCTCAGTTGTTTGCTTCAAGGACCTTTCATCTTCAGGATTTACATGCATTCTGAAAGAGGAGA 39 CATCAAACAGAATTAGGAGTTGTGCAACAGCTCTTTTGAGAGGAGGCCTAAAGGACAGGAGAAAAGGTCTTCAATCGTGG 40 AAAGAAATTAAATGTTGTATTAAATAGATCACCA 42 GAGAACCGATACCATTTTCTGGCCAGGTTGTCTCCTGGTTAAACGCTGTGGGGAACTGTGCCTGTTGTCTCCACAATT INCYTE 43 GCAATGAATGTCAATGTGTCCCAAGCAAAGTTACTAAAAATACCACGAGGTCCTTCAGTTGAGACCAAAGACCGGTGTC 44 AGGGGATTGCACAAATCACTCACCGACGTGGCCCTGGAGCACCATGAGGAGTGTGACTGTGTGCAGAGGGAGCACAGG 45 AGGATAGCCGCATCACCACCA INCYTE 47 AGAAAATCCAGAGTGGTGGATCTGAACCTTCTAACAGAGGAGGTAAGATTATACAGCTGCACACCTCGTAACTTCTCAGT 48 GTCCATAACGGAAGAACTAAAGAGAACCGATACCATTTTCTGGCCAGGTTGTCTCCTGGTTAAACGCTGTGGGGAACT 49 GTGCCTGTTGTCTCCACAATTGCAATGAATGTCAATGTGTCCCAAGCAAAGTTACTAAAAAAATACCACGAGGTCCTTCAG TTGAGACCAAAGACCGGTGTCAGGGGATTGCACAAATCA 50 52 AGATGATATAAAATATTGTTGCTCTGACAAAAATACATGTATTTCATTCTCGTATGGTGCTAGAGTTAGATTAATCTGCA INCYTE TTTTAAAAAACTGAATTGGAATAGAATTGGTAAGTTGCAAAGACTTTTTGAAAATAATTAAATTATCATATCTTCCATTC 54 CTCTTATTGGAGATGAAAATAAAAACCAACTTATGAAAGTAGACATTCAGATCCAGCCATTACTAACCTATTCCTTTTTT 55 GGGGAAATCTGAGCCTAGC TTTTTAAAAAGGAACTATGTTGCTATGAATTAAACTTGTGTCGTGGTGATAGGACAGACTGGATTTTTCATATTTCTTAT INCYTE 58 TAAAATTTCTGCCATTTAGAAGAAGAACTACATCATCATCGTTTGGAAGAGATAAACCTGAAAAGAAGAGAGTGGCCTATCT 59 TCACTITATCGATAAGICAGTTTATTTGTTCATTGTGTACATTTTTATATTCTCCTTTGACATATAACTGTTGGCTTTT 60 CTAATCTGTTAAATATATCTATTTTTACCAAAGGTATTTAATAT 62 AGGAAATCAAATTAGGATAAGATTGCATCTGATGAATATTTTCCTTCTGAACCTTCTAACAGAGGAGGTAAGATTATAC INCYTE 63 AGCTGCACACCTCGTAACTTCTCAGTGTCCATAAGGGAAGAACTAAAGAGAACCGATACCATTTTCTGGCCAGGTTGTCT CCTGGTTANACGCTGTGGGANCTGTGCCTGTTGTCTCCCACANTTGCAATGAATGTCAATGTGTCCCAAGCAAAGTT 65 ACTANANANTACCACGAGGTCC 67 ATTTCATCTTCAGGATTTACAGTSCATTCTGAAANAGGAGAAATCAAACANAATTAGGAGTTGTGCAACAGCTCTTTTGA 68 GAGGAGGCCTAAAGGACAGGAGAAAAGGTCTTCAATCGTGGAAANAAAATTAAATGTTGTATTAAATAGATCACCAGCTA 69 GTTTCAGAGTTACCATGTACGTATTCCACTAGCTGGGTTCTGTATTTCAGTTCTTTCGATACGGCTTAGGGTAATGTCAG 70 TACAGGARARAACTGTGCAAGTGAGCACCTGATTCCGTTGCCTTGCTT INCYTE 72 TTAGCTTGGNAAATTTTTCTAAATACAATTGTTATAGCCAGAGGAACAAAGATGATATAAAATATTGTTGCTCTGACAAA 73 AATACATGTATTCATTCTCGTATGGTGCTAGAGTTAGATTAATCTGCATTTAAAAAACTGAATTGGAATAGAATTGGT 75 TATGANAGTAG

INCYTE LUNGSTO1 76 >87727981 rgttatagccagaggaacaaa. TAGAGTTAGATTAATCTGCAT 79 TTTAAAAAAACTGAATTGGAATAGAATTGGTAAGTTGCAAAGGCTTTTTGAAAATAATTAAATTATCATATCTTCCATTCC 80 TGTTATTGGNGG INCYTE BRAINCT01 84 CTCTTGCCCAGAGCTGTGCAGTGCAGTGGCTGATTCTATTAGAGAACGTATGCGTTATCTCCATCCTTAATCTCAGTTGT 85 TTGCT INCYTE 87 AGATAAACCTGAAAAGAAGAGTGGCCTTATCTTCACTTTATCGATAAGTCAGTTTATTTGTTTCATTGTACATTTTTA 86 >2171082Hl ENDCNOTES 88 TATTCTCCTTTTGACATTATAACTGTTGGCTTTTCTAATCTTCTTAAATATATCTATTTTTACCAAAGGTATTTAATATT 89 CTITTITATGACAACTTAGATCAACTATTTTTAGCTTGGTAAATTTTTCTAAACACAATTGTTATAGCCAGAGGAACAAA 90 GATGA INCYTE LUNGASTOL 92 CTGGATTTTCATATTCTTATTAAAATTTCTGCCATTTAGAAGAACAGAACTACATTCATGGTTTGGAAGAGATAAACC 91 >875860H1 93 TGAAAAGAAGAAGACTGGCCTTATCTTCACTTTATCGATAAGTCAGTTTATTTGTTTCATTGTGTACATTTTTATATTCTCCT 94 TTTGACATTATAACTGTTGGCTTTYCTAATCTTGTTAAATATATCTATTTTACCAAAGGTATTTAATATTCTTTTAT 95 GAC INCYTE 97 GCTCATATTCACATATGTAAACCAGAACATTCTATGTACTACAAACCTGGTTTTTAAAAAGGANCTATGTTGCTATGAAT SYNORATO4 98 TAAACTTGTGTGGGGGTGATAGGACAGACTGGATTTTCATATTTCTTATTAAAATTTCTGCCATTTAGAAGAAGAAGAAAC 99 TACATTCATGGTTTGGAAGAGATAAACCTGAAAAGAAGAGTGGCCTTATCTTCANTTTATCGATAAGTCAGTTTATTTGT 100 TTCA KEPANOTC1 INCYTE 102 ANGAGTTGCCCAGAGCTGTGCAGTGCAGTGGCTGATTCTATTAGAGAACGTATGCGTTATCTCCATCCTTAATCTCAGTT 103 GTTTGNTTCAAGGACCTTTCATCTTCAGGATTTACAGTGCATTCTGAAAGAGGAGACATCAAACAGAATTAGGAGTTGTG 104 CAACAGCTCTTTTGAGAGGGGCCTAAAGGNCAGGAGAAAAGGTCTTCAATCGTGGAAAGAAAATTAAATGTTGTATTAA 105 ATAGATC INCYTE 106 >538436H1 107 AAAGATGATATAAAATATTGTTGCTCTGACAAAATACATGTATTTCATTCTCGTATGGTGCTAGAGTTAGATTAATCTG LNCDNOTG2 108 CATITTAAAAAACTGAATTGGAATAGAATTGGTAAGTTGCAAAGACTTTTTGAAAATAATTAAATTATCATATCCAT 109 TCCTGTTATTGGAGATGAAAATAAAAGCAACTTATGAAAGTAGACATTCAGATCCAGCCATTACTAACCTAT INCYTE 110 >1303909K1 FLACNOTG2 111 AGGAAATCAAATTAGGATAAGATTTOTATCTGATGAATATTTTCCTTCTGAACCTTCTAACAGAGGAGGTAAGATTATAC 112 AGCTGCACACCTCGTAACTTCTCAGTGTCCATAAGGGAAGAACTAAAGAGAACCGATACCATTTTCTGGCCAGGTTGTCT INCYTE OVARNOTC9 115 GTGCATTCTGARAGAGGAGACATCARACAGAATTAGGAGTTGTGCARCAGCTCTTTTGAGAGGAGGCCTARAGGACAGGA 114 >2739211H1 115 GAAAAGGTCTTCAATCGTGGAAAGAAAATTAAATGTTGTATTAAATAGATCACCAGCTAGTTTCAGAGTTACCATGTACG 117 TATICCACTAGCTGGGTTCTGTATTTCAGTTCTTTCGATACGGCTAAGGGTAATGTCAGTACAGGAAAAAACTGTGCAA 118 GTGAGCACCTGAT INCLIB LUNGTUTCE 120 TGTACATTYTTATATTCTCCTTTTGACATTATAACTGTTGGCTTTTCNAATCTTGTTAAATATATCTATTTTTACCAAAG 119 >2550343H1 121 GTATTTAATATTCTTTTTATGACAACTTAGATCAACTATTTTTAGCTTGGTAAATTTTTCTAAACACAATTGTTATAGC 122 CAGAGGAACAAAGATGATATAAAATATTGTTGCTCTGACAAAAATACATGTATTTCATTCTCGTATGGTGCTA INCYTE PIBPEZNIE 123 >5321148Hl 124 CACAATTGTTATAGCCAGAGGAACAAAGATGATATAAAATATTGTTGCTCTGNCAAAAATACATGTATTTCATTCTCGTA 125 TGGTGCTAGAGTTAGATTAATCTGCATTTTAAAAACTGAATTGGAATAGAATTGGTAAGTTGCAAAGACTTTTTGAAAA 126 TAATTAAATTATCATATCTTCCATTCCTGTTATTGGAGATGAAAATAAAAAGCAACTTATGAAAGTAAATTCAGATCCAC 127 CATTACTAAC THYRNOTC? INCYTE 139 ATTTCATTCTCGTATGGTGCTAGAGTTAGATTAATCTGCATTTAAAAAACTGAATTGGAATAGAATTGGTAAGTTGCAA 130 AGACTTTTGAAAATAATTATCATATCTTCCATTCTGTTATTGGAGATGAAAATAAAAAGCAACTTATGAAAGT 131 AGACATTCAGATCCAGCCATTACTAACCTATTCCTTTTTTGGGGAAATCTGAGCCTAGCTCAGAAAAACATAAAGCACCT 132 TGAAAAA 132 >3325591%1 **PTHYNCTG3** INCYTE 135 AAATAGATCACCAGCTAGTTTCAGAGTTACCATGTACGTATTCGACTAGGTTGGGTTCTGTATTTCAGTTCTGTACG 136 GCTTAGGGTAATGTCAGTACAGGAAAAAACTGTGCAAGTGAGCACCTGATTCCGTTGCCTTAACCCTAAACCNCC 137 ATGTCNNGGGCNAAAANCGAAAAAT OVARYOTOR INCYTE 138 >543890Hl 139 TTTCTAAACACAATTGTTATAGCCAGAGGAACAAAGATGATATAAAATATTGTTGCTCTGACAAAAAATACATGTATTTCA 140 TTCTCGTATGGTGCTAGAGTAGATTAATCTGCATTTTAAAAAACTGAATTGGTAAGTAGGTAAGTTGCAAAGNCTT 141 TTTGAXAATAATTAATTATCATATCTTCCATTCCTGTTATTGGAGGATGGAAAATAAAAGCAACTTATGGAAAGTAGC 142 ACATTCAGATC INCYTE SMCCNOSC1 143 >373356581 144 CCTTAATCTCAGTTCTTTGCTTCAAGGACCTTTCATCTTCAGGATTTACAGTGCATTCTGNAAGANGAGACATCAAACAG 145 AATTAGGNETTGTGCAAAAGCTCTTTTGAGAGGAGGGCCTAAAGGACAGAGAGAAAAGGTCTNCAATCGTGGAAAGNAAATT 146 AAATGTTGTATNAAATNGATCACCAGCTAGTTTCAGAGTTACCATGTACGTATTCCACTAGCTGGGNCNGTATTCAGTCT 147 TTCGGAACCCCTTAGCGTAATGTCAGTACAGGANAAAAACTGTGCAGTGAG PROSTMTCS INCYTE 148 >4641939H1 149 GTACTACAAACCTGGTTTTTAAAAAGGAACTATGTTGCTATGAATTAAACTTGTGTCCATGTTGATAGGACAGACTGGATAAACCTGGATAAACCTGAAAAA

N

Ŀ

ĽÌ

TITTATATTCTCCTTTGACAT 151 GAAGAGTGCCCTTATCTTC TATCGATAAGTCAGTTTATTTGTTTCATGTG 152 ATAACGTGGCTTT 154 TTATATTCTCCTTTTGACATTATAACTGTTGGCTTTTCTAATCTTGTTAAATATATCTATTTTTACCAAAGGTATTTAAT 155 ATTOTTTTTATGACAACTTAGATCAACTATTTTTAGCTTGGTAAATTTTTCTAAACACAATTGTTATAGCCAGAGGAAC 156 AAAGATGATATAAAATATTGTTGCTCTGANAAAAAATACATGTAT 158 GCTCATATTCACATATGTAAACCAGAACATTCTATGTACTACAAACCTGGTTTTTAAAAAAGGAACTATTTGCTATGAATT INCYTE 159 ANACTTETGTCGTGCTGATAGGACAGACTGGNTTTTTCATATTTCTTATTANAATTTCTGCCATTAGAAGAAGAACTA 160 CATTCATGGTTTGGAAGAGATAAACCTGAAAAGAAGAGTGGCCTATTTCACTTTATCGATAAGTCAGT INCYTE 162 GCTCATATTCACATATGTAAACCACACATTCTATGTACTACAAACCTGGTTTTTAAAAAGGAACTATGTTGCTATGAAT 163 TAAACTTGTGTCGTGCTGATAGGACAGACTGGATTTTCATATTTCTTATTAAAATTTCTGCCATTTAGAAGAGAGAAC 164 TACATTCATGGTTTGGAAGAGATAAACCTGAAA 166 ANACTOTOCAAGTGAGCACCTGATTCCGTTGCCTTGCTTAACTCTAAAGCTCCATGTCCTGGGCCTAAAATCGTATAAAA INCYTE 167 TCTGGAnnnnnnnnnnnnnnnnnncnnectcatattcacatatgtaaaccagaacattctatgtactacaaacctggtttta 168 ANANGGANCTATGTTGCTATGAATTANACTTGTGTGTGGTGGTGATAGGACAGACTGGATTTTTCATATTTCTTATTANAAT 169 TTCTGCCATTAGAAGAAGAACTACNTTCANGGTTTGGAAGAGATAACCCTGAAAAGANGGG INCYTE 172 TATTGGAGATGAANATAAAAAGCAACTTATGAAAGTAGACATTCAGATCCAGCCATTACTAACCTATTCCTTTTTTGGGG 173 ANATOTGAGOCTAGOTCAGAAAAACATAAAGCACOTTGAAAAAGACTTGGCAGCTTCCTGATAAAGCGTGCTGTNTGTCA 174 GTAGGAACACATCCTATTTATTGTGATGNTGTGGTTTATTAT 176 ATTAAATAGATCACCAGCTAGTTTCAGAGTTACCATGTACGTATTCCACTAGCTGGGTTCTGTATTTCAGTTCTTTCGAT INCYTE 177 ACGGCTTAGGGTAATGTCAGTACAGGAAAAAACTGTGCAAGTGAGCACCTGATTCCGTTGCCTTGGCTTAACTCTAAAG 179 ACATTCTATGTACNACAAACCTGGTTTTTAAAAAGGAAC INCYTE 181 CCCTAGTTTCAGAGTTACCATGTACCTATTCCACTAGCTGGGTTCTGTATTTCAGTTCTTTCGATACGGCTTAGGGTAAT 182 GTCAGTACAGGAAAAAACTGTSCAAGTGAGCACCTGATTCCGTTGCCTTGCTTAACTCTAAAGCTCCATGTCCTGGGCC 183 TAAAATCGTATAAAATCTGGA INCYTE 186 AACTTATGAAAGTAGACATTCAGATCCAGCCATTACTAACCTATTCCTTTTTTTGGGGAAATCTGAGCCTAGCTCAGAAAA 187 ACATAXAGCACCTTGAAAAAGACTTGGCAGCTTCCTGATAAAGCGTGCTGTGCTGTGCAGTAGGGAACACATCCTATTTA 188 TTGTGATGTTGTGGTTTATATCCTAAACC 190 ANTAGATCACCAGCTAGTTTCAGAGTTACCATGTACGTATTCCACTAGCTGGGNTCTGTATTTCAGTTCCTTTCGATACG INCYTE 191 GCTTAGGGTAATGTCAGTACAGGAAAAAGCTGTGCAAGTGAGCACCTGATTCCGTTGCCTTAACTCTAAAGCTCC 192 ATGTCCTGGGCCTAAAATCGTATA INCYTZ 194 ACATAAACCTGAAAAGAAGAAGAGCCCTTATNTTCACTTTATCGATAAGTCAGNTTATTTGTTTCATTGTGTACATTTNNA 195 TATTCTCCTTTTGACATTATAACTENTGGCTTTTCTAANCNTGTTAAATATATCTATTTTTACCAAAGGTATTTAATATT 196 CTTT INCYTE 198 TATGGTGCTAGAGTTAGATTAATCTGCATTTTAAAAAACTGAATTGGAATAGAATTGGTAAGTTGCAAAGACTTTTTGAA 199 ANTANTANATTATCATATCTTCCATTCCTGTTATTCCAGATGAAAATAAAAAGCAACTTATG INCYTE UTRSNON03 201 TTTTTTNTTTTGCTCATATTCACATATGTAAACCNGAACATTCTATGTACNACAAACCTGGTTTTTAAAAAGGAACTATG 202 TIGGTATGAATTAAACTTGTGTGGTGGTGATAGGACAGACTGGATTTTCANATTTCTTANTAANNTTTCTGCCATTTAG 203 AAGA INCYTE 205 GTACAGGAAAAAACTGTGCAAGTGAGCACCTGATTCCGTTGCCTTAACTCTAAAGCTCCATGTCCTGGGCCTAAA LATRIUT02 206 ATCGTATAAAATCTGGAnmannnammarmannnnnngCTCATATTCACATATGTAAACCAGAACATTCTATGTACTACAAA 207 CCTGGTTTTTAAAAGGAACTATGTTGCTATGAATTAAACTTGTGTCGTGCTGATAGGACAGACTGGATTTTTCATATTT 208 CTTA INCYTE 210 CCAAAGACTTTTTGANAATNATTAANTTATCATATCTTCCATTCCTGTTATNGGAGATGANAATAAAAAGCAACTTATGA SKIRNOT:1 211 AAGTAGACATTCAGATCCAGCCATTACTAACCTATTCCTTTTTTGGGGAAATCTGAGCCTAGCNCAGAAAAACATAAAGC 212 ACCTTGAAAAAGACTTGGCAGCTTCCTGATAAAGCGTGCTGTGCTGCAGCAGCAACACCATCCNATTTATTGTGNTGTN 213 GNGGTTTTATGATC INCYTE 215 TGPCAGTACAGGAAAAAAACTGTGCAAGTGAGCACCTGATTCCGTTGCCTTGATCTCTAAAGGTCCATGTCCTGGGC 216 CTANATCGTATAAAATCTGGAMARANTANANANANANANANGCTCATATTCACATATGTAAACCAGAACATTCTATGTACT 217 ACAAACCTGGTTTTTAAAAAGGAACTATGTTGCTATGAATTAAACTTGTGTCATGCTGATAGGACAGACTGGATTTTCA 218 TAT INCYTE KEARFET03 219 >5032225H1 220 AATTATCATATCTTCCATTCCTGTTATTGGAGATGNAAATAAAAAGCAACTTATGAAAGTAGACATTCAGATCCAGCCAT 221 TACTAACCTATTCCTTTTTTGGGGAAATCTGAGCCTAGCTCAGAAAAACATAAAGCACCTTGAAAAAAGACTGTCAGCTTC 223 CCAT INCYTE SMCCNOS:1 224 >3732621%1 225 ANAGATGATATAAAANATTOTTGCTCTGACAANNATACATGTATTTCATTCTCGTATGGTGCTAGAGTTAGATTAATCTG

ataganttcctaacttccaaagnentttgaaa **TAAGTTATCAGAT** 226 CHTTTTAAAAAACTGANTT INCYTE 227 >3530274H1 209 BL 228 TTCCATTCCTGTTATTGGAGATGAAAATAAAAAGCAACTTATGAAAGTAGACATA ATCCAGCCATTACTAACCTATT 229 CCTTTTTTGGGGAAATCTGAGCCTAGCTCAGAAAACATAAAGCACCTTGAAAAAGACTTGGCAGCTTCCTGATAAACCG 230 TGCTGTGCTGTGCAGTAGGAACACATCCTATTTATTGTGATGTTGTGCTTTTATTATCTAAACTCTGTTCCATACACTTG 231 TATARATACATGGATATTTTTATGTACAGAAGTATGTCTCTTAACCAGTTCA INCYTE BLADNOT09 232 >3530249H1 TATOCATTCCTGTTATTGAGATGAAAATAAAAAGCAACTTATGANACTACACATTCAGATCAGCCATTACTATCCTAT 234 TCCTTTTTTGGGGAAATCTGAGCCTAGCTCAGAAAAACATAAAGCACCTTGAAAAAAGACTTGGCAGCTTCCTGATAAAGC 235 GTCCTGTGCTGTGCAGTAGGAACACCCTATTTATTGTGATGTTGTGGTTTTATTATCTTAAACTCTGTTCCATACACT 236 TGTATAAATACATGGATATTTTTATGTACAGAAGTATGTCTCTTAACCAGTTCACTTATTGTACCTGG 237

Fig 15 (cont'd)

VEGFE1	AAAATGTATGGATACAACTTAC	22
VEGFE2	GTTTGATGAAAGATTTGGGCTTG	23
VEGFE3	TTTCTAAAGGAAATCAAATTAG	22
VEGFE4	GATAAGATTTGTATCTGATG	20
VEGFE5	GATGTCTCCTCTTTCAG	17
VEGFE6	GCACAACTCCTAATTCTG	18
VEGFE7	AGCACCTGATTCCGTTGC	19
VEGFE8	TAGTACATAGAATGTTCTGG	20
VEGFE9	AAGAGACATACTTCTGTAC	19
VEGEEIO	CCAGGTACAATAAGTGAACTG	21

Fig. /6

	v	** T	F 1. 7.	N L L	T E E V R L	Y
+3	,					
1	ACGAANTCAN ATTAGGATAN CATTTGTATC TGATG TCCTTTAGTT TAATCCTATT CTANACATAG ACTAC	AA ATATT		TIGONAUNTI	Olcicator, indiana	IG AC
		• • • • • • •	• • •.• • •			٠.,
	3 S C T P R N P S V S I R					
81 -2	AGCTGCACAC CTCGTAACTT CTCAGTGTCC ATAAG TCGACGTGTG GAGCATTGAA GAGTCACAGG TATTC		CATTICIC	AACCCATACC TIGGCTATGG	TURNINGINGO GIAMBIA.	ey cx cx
_			. . 			
• • • •	3 LVK RCGG NCA C	сь н	N C 1	S D G	CVPSKV	
	CCTOGTTARA CGCTGTGGTG GGARCTGTGC CTGTT GGACCAATTT GCGACACCAC CCTTGACACG GACAA	ACACAG OT		1401140401		AT
_						• • •
+3	STKKY KEV LQLR ?	X T	GVR	G L H	K S L T D V	λ
+1	######################################		V S G		N H S P T W	
241	CTANAAATA CCACGAGGTC CTTCAGTTGA GACCA GATTTTTAT GGTGCTCCAG GAAGTCAACT CTGGT	LAAGAC CG	STGTCAGG CACAGTCC	CCATTCCACA	AATCACTCAC CCACGTGGG TTAGTGAGTG GCTGCACC	œ 22
-2	-2					
+3	L E H H E E C D C V C R			->		
+2					SPPAAL	
	A WST MRSV TVC A	2 G A				
321	CTGGAGCACC ATGAGGAGTG TGACTGTGTG TGCAG GACCTCGTGG TACTCCTCAC ACTGACACAC ACGTC	-1re-1 ea	-010010			<u>د</u> د .
• • • •						C
	2 Q S C A V Q W L I L L E				N L 2 C 5 D	
+1	PELCSAVADSI R					
401	COCCACAC CTCACCACAC CGACTAAGAT AATCT	ICTION MI		Q1001110000	21110110-0-0-0	CA GT
		• • • • • • •	• • • • • •	• • • • • • • •		
+2	2 GPF IFRI YSAF					
481	THE THE PERSON AND ADDRESS AND	CTTTC TC	Gagacatc Cictotag	AAACAGAATT TITOTCTTAA	AGGASTICTG CAACAGCT TCCTCAACAC GTTGTCGA	CT CA
						-
561			DAKADOTT	AAAATTAAA T	GITGIATIAA ATAGAICA	:.
	TO A SECOND TO THE TOTAL	TANETT ALL		TTT TWW TYW	CANCELLIANT CONTRACTOR	ĞĞ
	AAACTCTCCT CCGGATTTCC TGTCCTCTTT TCCAG	SAALTT AG	PCCTTIC	1111742114	· · · · · · · · · · · · · · · · · · ·	
641	AAACTCTCCT CCGGATTTCC TGTCCTCTTT TCCAG AGCTAGTTTC AGAGTTACCA TGTACGTATT CCACT	AAGTT AG	TCTGTAT	TTCAGTTCTT AAGTCAAGAA	TOGATACGGC TTAGGGTA AGCTATGCCS AATCCCAT	AT TA
641	AAACTCTCCT CCGGATTTCC TGTCCTCTTT TCCAG AGCTACTTTC AGAGTTACCA TGTACGTATT CCACT TCGATCAAAG TCTCAATGGT ACATGCATAA GGTGA	TAGCTG GG	rtctgtat Aagacata	TTCAGTTCTT AAGTCAAGAA	TOGATACGCC TTAGGGTA AGCTATGCCG AATCCCAT	AT TA
641 721	ARACTECET COGRATITIC TOTACTENT TOCAGE AGCTACTITE AGAGTIACEA TGTACGTATT CCACT TCGATCAAAG TCTCAATGGT ACATGCATAA GGTGA GTCAGTACAG GAANANACT GTGCAAGTGA GCACC	TAGCTG GC	TCTGTAT AAGACATA STTGCCTT	TTCAGTTCTT AAGTCAAGAA GGCTTAACTC CCGAATTGAG	TEGATACGEC TTAGGGTA AGCTATGCCG AATCCCAT TAAAGCTCCA TGTCCTCC ATTTCGAGGT ACAGGACCC	AT TA GC
641 721	AAACTCTCCT CCGGATTICC TGTCCTCTTT TCCAG AGCTAGTTTC AGAGTTACCA TGTACGTATT CCACT TCGATCAAAG TCTCAATGGT ACATGCATAA GGTGA	TAGCTG GC	TCTGTAT AAGACATA STTGCCTT	TTCAGTTCTT AAGTCAAGAA GGCTTAACTC CCGAATTGAG	TEGATACGEC TTAGGGTA AGCTATGCCG AATCCCAT TAAAGCTCCA TGTCCTCC ATTTCGAGGT ACAGGACCC	AT TA GC
641 721	ARACTECET COGRATITIC TOTACTENT TOCAGE AGCTACTITE AGAGTIACEA TGTACGTATT CCACT TCGATCAAAG TCTCAATGGT ACATGCATAA GGTGA GTCAGTACAG GAANANACT GTGCAAGTGA GCACC	TAGCTG GC	TCTGTAT AAGACATA STTGCCTT	TTCAGTTCTT AAGTCAAGAA GGCTTAACTC CCGAATTGAG	TEGATACGEC TTAGGGTA AGCTATGCCG AATCCCAT TAAAGCTCCA TGTCCTCC ATTTCGAGGT ACAGGACCC	AT TA GC

Fig 17

+3				•			EEVRLY
1	AGGAAATCAA TCCTTTAGTT	TAATCCTATT	CTAAACATAG	TGATGAATA! ACTACTTATA	MANAGEMENTS OF	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	CAGAGGAGGT AAGATTATAC GTCTCCTCCA TTCTAATATG
 +3	S C T F	ע זו פ	s v s	IRE	ELKR	TDT	IFWP GCL
B1			}		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	AACCGATACC	ATTENTOTOGO CAGGITGTOT
-2	TOGACGTGTG	GAGCATTGAA	GAGTCACAGG	TATICCCIA	. 1100111010	TIGOCIAIGG	A
				• • • • • • •			
-3	LVK	RCGG	, K C A	CCL	H M C	N E C Q	CVPSKV
161	CCTGGTTAAA GGACCAATTT	CCCTGTCGTC	GGAACTGTGC CCTTGACACG	CIGITATOTO GACAACACA	CACAATTGCA GTGTTAACGT	ATGAATGTCA TACTTACAGT	ATGTOTOCCA AGCAAGTTA TACACAGGGT TCGTTTCAAT
-2							
• • • •	• • • • • • • • •				G TV P	G T, H 3	SLIDVA
+3	T K K Y	H E V	r G r				SLTDVA
+1					1		N H S P T W P
	GATTTTTTAT		CAACICAACI	CIGGITICIC	,		ANTENCTONE CONCERTORE TRACTORE COTOCACCOG
-2					<i>.</i>		
• • • •	LEHH						
+3	LEHH	. E & C					PPAALA
-2							
+1	W S T	M R S Y	T V C	A E G			TTSSSC
321	CTGGAGCACC GACCTCGTGG	TACTCCTCAC	ACTEACALAC	ACCITCICC.		TATCGGCGTA	CACCACCAGC AGCTCTTGCC GTGGTGGTCG TCGAGAACGG
	••••••				• • • • • • • •	C T 1	NISCLLO
+2	Q S C A	, v 6 %	L I L	r = 2	A 6 4 1		NLSCLLQ
-1	PBLC	S A V	A D S	I REI	X	тив	
401	CAGACCTGTG GTCTCGACAC	CAGTGCAGTG GTCACGTCAC	CCTGATTCTA CGACTAAGAT	AATCICITO		CTCCATCCTT GACGTAGGAA	AATCTCAGTT GTTTGCTTCA TTAGAGTCAA CAAACGAAGT
				-			
	G P F						
481	AGGACCTITC TCCTGGAAAG	ATCTTCAGGA TAGAAGTCCT	TTTACAGTGC AAATCTCACG	ATTCTGAAAC TAAGACTTY	AGGAGACATO TCCTCTGTAG	AAACAGAATT TTTGTCTTAA	AGGACTTGTG CAACAGCTCT TCCTCAACAC GTTGTCGAGA
		• • • • • • • • • • • • • • • • • • •	· · · · · · · · · ·				COCCONTEND & APAGATCACC
		~~~~\\	TATEL MANAGEMENT	TCCAGASGT	' ALLACCITÀL	71111001110	GTTGTATTAX ATAGATCACC CAACATAATT TATCTAGTGG
- • • •	AAACTCTCCT	• • • • • • • • •	• • • • • • • •	• • • • • • •			TOTAL TRACECTART
•	TCGATCAAAG	TCTCAATGGT	ACATSCATAA	GGTGATUGA		ANGICAMAN	TOGATACGGC TTAGGGTAAT AGCTATGCCG AATCCCATTA
721	GTCAGTACAC	GAAAAAAACT	STGCAAGTGA	GCACCTGATA	CCGTIGCCIT CGCAACGGAA	CCGAATTGAG	ATTTCGAGGT ACAGGACCCG
					<i>.</i>		
		~~ ~~~~ ~ · ~	~~~~~~~~~~~	BBBBBBBBBBB	LM_CATMILAMENT	GININCATOR	CCAGAACATT CTATGTACTA SOTCTTGTAA GATACATGAT
		• • • • • • • •				~~~~~~~~	CONCAGACTO CATTETTCAT
			A A				
881	CAAACCTGGT GTTTGGACCA	TTTTAAAAAG		CATACTERA	. 'I''L LLYAAL-AL-A		GGACAGACTG GATTTTCAT CCTGTCTGAC CTAAAAAGTA

Fig 1

	TAAAGAATAA	TITTAAACAC	CCATTAGAA GGTAAATCTT	CAAGAGAACT CTTCTCTTGA	ACATTCATGG TOTAAGTACC	TTTGCAAGAG AAACCTTCTC	ATARACCTGA TATTTGGACT	ANAGANGACT. TITCTTCTCA
-3	4.,							• • • • • • • • • • • • • • • • • • • •
	CCCCTTATCT CCCCAATAGA	agtgaaatag	GATAAGTCAG CTATICAGTC	TTTATTTGTT AAATAAACAA	TCATTCTGTA AGTAACACAT	CATTTTIATA GTAAAAATAT	TTCTCCTTTT AAGAGGAAAA	Gacattataa Ctgiaatatt
						• • • • • • • • •		• • • • • • • • • •
1121	CTGTTGGCTT GACAACCGAA	TTCTAATCTT AAGATTAGAA	GTTAAATATA CAATTTATAT	AGATAAAAAT	CCTTTCCATA	TTAATATTCT AATTATAAGA	AMMANTACIG	TIGARICTAC
• • • •								
1201	AACTATITIT TIGATAAAA	AGCTTGGTAA TCGAACCATT	ATTTTTCTAA TAAAAAGATT	TOTOTTANCA	ATATCECTCT	CCLICITICI	ACTATATITT	ATRACAACGA
• • • •	• • • • • • • •					****	TABBARCTYC	AATTYCCAATA
1281	Calculate the Color	ATGTACATAA	TCATICICGI AGTAAGAGCE	TACCACGATC	TCAATCTAAT	TAGACGTARA	ATTTTTGAC	TTAALLITAL
	• • • • • • • • • •					******	OPEN TROYCON CON	מהבשבת במבש
1361	CTTAACCATT	CAACGITICI	CTTTTTGAAA GAAAAACTTT	KITTAATTAA	ATACTATAGA	ACCIAAGGAC	AATAACCICI	ACTITIATIT
• • • •	• • • • • • • •							• • • • • • • • • • • • • • • • • • •
1441	AAGCAACTTA TTCGTTGAAT	ACTITICATOR	CATTCAGATC GTAACTCTAG	CTCGGTAATG	ATTGCATAAG	GAAAAAACCC	CTTTAGACTC	GGATCGAGTC
	- • • • • • • • • • • • • • • • • • • •		<i>.</i> <del>.</del> .					· · · · · · · · · · · · · · · · · · ·
1521	AAAAACATAA TTTTTGTATT	AGCACCTTGA TCGTGGAACT	AAAGACTTG TTTTCTGAAC	CCACCTTCCT CCTCGAAGGA	CATAAAGCGT CTATTTCGCA	GCTGTGCTGT CGACACGACA	OCAGTAGGAA CSTCATCCTT	CACATCCTAT GTGTAGGATA
• • • •	• • • • • • • •							T) TOTAL CALL
1601	TTATTGTGAT AATAACACTA	CAACACCAAA	TATTATCTTA ATAATAGAAT	AACTCTGTTC TTGAGACAAG	CATACACTIC GTATGTGAAC	ATATTTATGT	ACCIATAAA	ATACATGTCT
• • • •		• • • • • • • • •	· · · · · · · · ·			• • • • • • • • • •	• • • • • • • • • •	• • • • • • • • •
1681	ACTATCTCTC TCATACAGAG	TTAACCAGTT AATTGGTCAA	Cacitattet Gtgaataaca	ACCTGG TGGACC			•	
				<b></b>				<b></b> .

Fig 18 (contid,

#### Figure 19. DNA and polypeptide sequence used for mammalian cerespression

+1 m s l f g l l l t s a l a g g r 1 GGATCCAAAA TGAGCCTCTT CGGGCTTCTC CTGCTGACAT CTGCCCTGGC CGGCCAGAGA

+1 q g t q a E S N L S S K F Q F S S N K E 61 CAGGGGACTC AGGCGGAATC CAACCTGAGT AGTAAATTCC AGTTTTCCAG CAACAAGGAA

+1 Q N G V Q D P Q H E R I I T V S T N G S 121 CAGAACGAG TACAAGATCC TCAGCATGAG AGAATTATTA CTGTGTCTAC TAATGGAAGT

+1 I H S P R F P H T Y P R N T V L V W R L 181 ATTCACAGCC CAAGGTTTCC TCATACTTAT CCAAGAAATA CGGTCTTGGT ATGGAGATTA

+1 V A V E E N V W I Q L T F D E R F G L E 241 GTAGCAGTAG AGGAAAATGT ATGGATACAA CTTACGTTTG ATGAAAGATT TGGGCTTGAA

+1 D P E D D I C K Y D F V E V E E P S D G
301 GACCCAGAAG ATGACATATG CAAGTATGAT TTTGTAGAAG TTGAGGAACC CAGTGATGGA

+1 T I L G R W C G S G T V P G K Q I S K G 361 ACTATATTAG GGCGCTGGTG TGGTTCTGGT ACTGTACCAG GAAAACAGAT TTCTAAAGGA

+1 N Q I R I R F V S D E Y F P S E P G F C 421 AATCAAATTA GGATAAGATT TGTATCTGAT GAATATTTTC CTTCTGAACC AGGGTTCTGC

+1 I H Y N I V M P Q F T E A V S P S V L P 481 ATCCACTACA ACATTGTCAT GCCACAATTC ACAGAAGCTG TGAGTCCTTC AGTGCTACCC

+1 P S A L P L D L L N N A I T A F S T L E 541 CCTTCAGCTT TGCCACTGGA CCTGCTTAAT AATGCTATAA CTGCCTTTAG TACCTTGGAA

+1 D L I R Y L E P E R W Q L D L E D L Y R 601 GACCTTATTC GATATCTIGA ACCAGAGAGA TGGCAGTTGG ACTTAGAAGA TCTATATAGG

+1 P T W Q L L G K A F V F G R K S R V V D 661 CCAACTIGGC AACTICTIGG CAAGGCTITT GTTTTTGGAA GAAAATCCAG AGTGGTGGAT

+1 L N L L T E E V R L Y S C T P R N F S V
721 CTGAACCTTC TAACAGAGGA GGTAAGATTA TACAGCTGCA CACCTCGTAA CTTCTCAGTG

+1 S I R E E L K R T D T I F W P G C L L V 781 TCCATAGGG AAGAACTAAA GAGAACCGAT ACCATTITCT GGCCAGGTTG TCTCCTGGTT

+1 K R C G G N C A C C L H N C N E C Q C V 841 AAACGCTGTG GTGGGAACTG TGCCTGTTGT CTCCACAATT GCAATGAATG TCAATGTGTC

+1 P S K V T K K Y H E V L Q L R P K T G V 901 CCAAGCAAAG TTACTAAAAA ATACCACGAG GTCCTTCAGT TGAGACCAAA GACCGGTGTC

+1 R G L H K S L T D V A L E H H E E C D C 961 AGGGGATTGC ACAAATCACT CACCGACGTG GCCCTGGAGC ACCATGAGGA GTGTGACTGT

+1 V C R G S T G G <u>S R G P E E G K P I P N</u>
1021 GTGTGCAGAG GGAGCACAGG AGGATCTAGA GGGCCCTTCG AAGGTAAGCC TATCCCTAAC

+1 P L L G L D S T R T C H H H H H 1081 CCTCTCCTCG GTCTCGATTC TACGCGTACC GGTCATCATC ACCATCACCA TTGA

#### Figure 20. DNA and polypeptide sequence used for baculovirus/insect cell expression

- 1 GAATICAAAG GCCTGTATTT TACTGTTTTC GTAACAGTTT TGTAATAAAA AAACCTATAA
- +3 m k f l v n v a l v f m v v y i s y i 61 ATATGAAATT CTTAGTCAAC GTTGCCCTTG TTTTTATGGT CGTATACATT TCTTACATCT
- +3 y a <u>D P E S H H H H H H</u> E S N L S S K F 121 ATGCGGATCC GGAGTCTCAC CATCACCACC ATCATGAATC CAACCTGAGT AGTAAATTCC
- +3 Q F S S N K E Q N G V Q D P Q H E R I I 181 AGTTTTCCAG CAACAAGAA CAGAACGGAG TACAAGATCC TCAGCATGAG AGAATTATTA
- +3 T V S T N G S I H S P R F P H T Y P R N 241 CTGTGTCTAC TAATGGAAGT ATTCACAGCC CAAGGTTTCC TCATACTTAT CCAAGAAATA
- +3 T V L V W R L V A V E E N V W I Q L T F
  301 CGGTCTTGGT ATGGAGATTA GTAGCAGTAG AGGAAAATGT ATGGATACAA CTTACGTTTG
- +3 D E R F G L E D P E D D I C K Y D F V E 361 ATGAAAGATT TEGGCTTGAA GACCCAGAAG ATGACATATG CAAGTATGAT TTTGTAGAAG
- +3 V E E P S D G T I L G R W C G S G T V P 621 TTGAGGAACC CAGTGATGGA ACTATATTAG GGCGCTGGTG TGGTTCTGGT ACTGTACCAG
- +3 G K Q I S K G N Q I R I R F V S D E Y F 481 GAAAACAGAT TICTAAAGGA AATCAAATTA GGATAAGAT TGTATCTGAT GAATATTTTC
- +3 P S E P G F C I H Y N I V M P Q F T E A 541 CTTCTGAACC ACGGTTCTGC ATCCACTACA ACATTGTCAT GCCACAATTC ACAGAAGCTG
- +3 V S P S V L P P S A L P L D L L N N A I 601 TGAGTCCTTC AFTGCTACCC CCTTCAGCTT TGCCACTGGA CCTGCTTAAT AATGCTATAA
- +3 T A F S T L E D L I R Y L E P E R W Q L 661 CTGCCTTTAG TACCTTGGAA GACCTTATTC GATATCTTGA ACCAGAGAGA TGGCAGTTGG
- +3 D L E D L Y R P T W Q L L G K A F V F G
  721 ACTTAGAAGA TCTATATAGG CCAACTTGGC AACTTCTTGG CAAGGCTTTT GTTTTTGGAA
- +3 R K S R V V D L N L L T E E V R L Y S C
  781 GARAATCCAG ASTGGTGGAT CTGAACCTTC TAACAGAGGA GGTAAGATTA TACAGCTGCA
- +3 T P R N F S V S I R E E L K R T D T I F 841 CACCTCGTAA CTTCTCAGTG TCCATAAGGG AAGAACTAAA GAGAACCGAT ACCATTTCT
- +3 W P G C L L V K R C G G N C A C C L H N 901 GGCCAGGTTG TCTCCTGGTT AAACGCTGTG GTGGGAACTG TGCCTGTTGT CTCCACAATT
- +3 C N E C Q C V P S K V T K K Y H E V L Q
  961 GCAATGAATG TCAATGTGTC CCAAGCAAAG TTACTAAAAA ATACCACGAG GTCCTTCAGT
- +3 L R P K T G V R G L H K S L T D V A L E 1021 TGAGACCAAA GACCGGTGTC AGGGGATTGC ACAAATCACT CACCGACGTG GCCCTGGAGC
- +3 H H E E C D C V C R G S T G G 1081 ACCATGAGGA GTSTGACTGT GTGTGCAGAG GGAGCACAGG AGGATAGCTC TAGA

## Figure 21. DNA and polypeptide sequence used for *E.coli* expression

S S N N N N N N N N N L G I 1 CGCAGACTAA TTCGAGCTCG AACAACAACA ACAATAACAA TAACAACAAC CTCGGGATCG SEF ESNL SSK FQF SSN 61 AGGGAAGGAT TTCAGAATTC GAATCCAACC TGAGTAGTAA ATTCCAGTTT TCCAGCAACA +3 K E Q N G V Q D P Q H E R I I T V S T N 121 AGGAACAGAA CGGAGTACAA GATCCTCAGC ATGAGAGAAT TATTACTGTG TCTACTAATG +3 G S I H S P R F P H T Y P R N T V L V W 181 GAAGTATTCA CAGCCCAAGG TTTCCTCATA CTTATCCAAG AAATACGGTC TTGGTATGGA NVWIQLT FDE R F G +3 R L V A V E E 241 GATTAGTAGC AGTAGAGGAA AATGTATGGA TACAACTTAC GTTTGATGAA AGATTTGGGC +3 L E D P E D D I C K Y D F V E V E E P S 301 TTGAAGACCC AGAAGATGAC ATATGCAAGT ATGATTTTGT AGAAGTTGAG GAACCCAGTG G T V P G K Q I S +3 D G T I L G R W C G S 361 ATGGAACTAT ATTAGGGCGC TGGTGTGTT CTGGTACTGT ACCAGGAAAA CAGATTTCTA +3 K G N Q I R I R F V S D E Y F P S E P G 421 AAGGAAATCA AATTAGGATA AGATTTGTAT CTGATGAATA TTTTCCTTCT GAACCAGGGT +3 F C I H Y N I V M P Q F T E A V S P S V 481 TCTGCATCCA CTACAACATT GTCATGCCAC AATTCACAGA AGCTGTGAGT CCTTCAGTGC +3 L P P S A L P L D L L N N A I T A F S T 541 TACCCCCTTC AGCTTTGCCA CTGGACCTGC TTAATAATGC TATAACTGCC TTTAGTACCT +3 L E D L I R Y L E P E R W Q L D L E D L 601 TGGAAGACCT TATTCGATAT CTTGAACCAG AGAGATGGCA GTTGGACTTA GAAGATCTAT +3 Y R P T W Q L L G K A F V F G R K S R V 661 ATAGGCCAAC TTGGCAACTT CTTGGCAAGG CTTTTGTTTT TGGAAGAAAA TCCAGAGTGG +3 V D L N L L T E E V R L Y S C T P R N F 721 TGGATCTGAA CCTTCTAACA GAGGAGGTAA GATTATACAG CTGCACACCT CGTAACTTCT +3 S V S I R E E L K R T D T I F W P G C L 781 CAGIGICCAT ARGGGAAGAA CTAAAGAGAA CCGATACCAT TITCTGGCCA GGTIGTCTCC +3 L V K R C G G N C A C C L H N C N E C Q 841 TGGTTAAACG CTGTGGTGGG AACTGTGCCT GTTGTCTCCA CAATTGCAAT GAATGTCAAT

+3 C V P S K V T K K Y H E V L Q L R P K T 901 GTGTCCCAAG CAAAGTTACT AAAAAATACC ACGAGGTCCT TCAGTTGAGA CCAAAGACCG

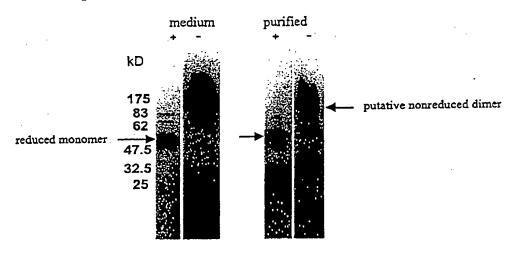
+3 G V R G L H K S L T D V A L E H H E E C 961 GTGTCAGGGG ATTGCACAAA TCACTCACCG ACGTGGCCCT GGAGCACCAT GAGGAGTGTG

+3 D C V C R G S T G G H H H H H H H T *
1021 ACTGTGTGT CAGAGGAGG ACAGGAGGAC ATCATCACCA TCACCATTGA TCTAGAGTCG

1081 ACCTGCAGGC AAGCTT

Figure 22. Disulphide-linked dimerisation of VEGF-X

## (A) Mammalian cell expression



### (B) E.coli expression

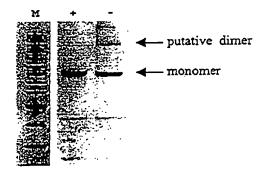
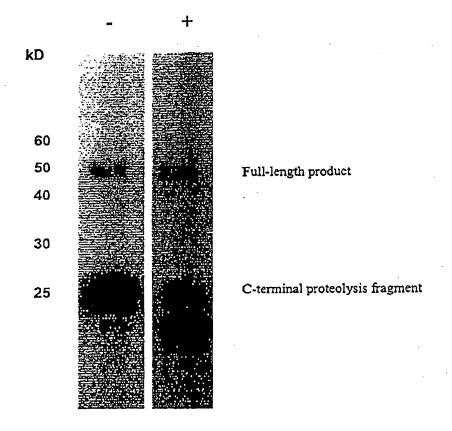


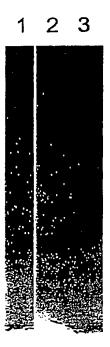
Figure 23. Glycosylation of VEGF-X



#### Figure 24. DNA and polypeptide sequence used for E.coli expression of the PDGF-like domain

- <u> в н н н н н д н н с м</u>
- 1 AAGGAGATAT ACATATGCGG GGTTCTCATC ATCATCATCA TCATGGTATG GCTAGCATGA
- OMGRDLY DDD DKD PGR 61 CTGGTGGACA GCAAATGGGT CGGGATCTGT ACGACGATGA CGATAAGGAT CCGGGAAGAA
- +3 K S R V V D L N L L T E E V R L Y S C T 121 AATCCAGAGT GGTGGATCTG AACCTTCTAA CAGAGGAGGT AAGATTATAC AGCTGCACAC
- +3 P R N F S V S I R E E L K R T D T 181 CTCGTAACTT CTCAGTGTCC ATAAGGGAAG AACTAAAGAG AACCGATACC ATTTTCTGGC
- +3 P G C L L V K R C G G N C A CCL 241 CAGGTTGTCT CCTGGTTAAA CGCTGTGGTG GGAACTGTGC CTGTTGTCTC CACAATTGCA
- +3 N E C Q C V P S K V T K K Y H E V 301 ATGATGTCA ATGTGTCCCA AGCAAAGTTA CTAAAAAATA CCACGAGGTC CTTCAGTTGA
- +3 R P K T G V R G L H K S L T D V A L E H 361 GACCAAAGAC CGGTGTCAGG GGATTGCACA AATCACTCAC CGACGTGGCC CTGGAGCACC
  - +3 H E E C D C V C R G S T G G
- 421 ATGAGGAGTG TGACTGTGTG TGCAGAGGGA GCACAGGAGG ATAATGAATT CGAAGCTTGA
- 481 TCCGGCTGCT AACAAAGCCC

Figure 25. Expression of PDGF domain in E.coli



# Figure 26. DNA and polypeptide sequence used for E.coli expression of the CUB-like domain

- INSDPESHHHHHH MAMDIG
- 1 GGCGATGGCC ATGGATATCG GAATTAATTC GGATCCGGAG TCTCACCATC ACCACCATCA
- +2 ESNLSSK FQFSSNKEQNGVQ 61 TGAATCCAAC CTGAGTAGTA AATTCCAGTT TTCCAGCAAC AAGGAACAGA ACGGAGTACA
- +2 DPQ HERI ITV STN GSIH SPR 121 AGATCCTCAG CATGAGAGAA TTATTACTGT GTCTACTAAT GGAAGTATTC ACAGCCCAAG
- F P H T Y P R N T V L V W R L V A V E E 181 GTTTCCTCAT ACTTATCCAA GAAATACGGT CTTGGTATGG AGATTAGTAG CAGTAGAGGA
- +2 N V W I Q L T F D E R F G L E D P E D D 241 ARATGTATGG ATACAACTTA CGTTTGATGA AAGATTTGGG CTTGAAGACC CAGAAGATGA
- ICK YDFV EVE EPS DGTI LGR 301 CATATGCAAG TATGATTTTG TAGAAGTTGA GGAACCCAGT GATGGAACTA TATTAGGGCG
- +2 WCG SGTV PGK QIS KGNQ I RI 361 CTGGTGTGGT TCTGGTACTG TACCAGGAAA ACAGATTTCT AAAGGAAATC AAATTAGGAT
- R F V S D E Y F P S E P G F C I H Y N I 421 AAGATTTGTA TCTGATGAAT ATTTTCCTTC TGAACCAGGG TTCTGCATCC ACTACAACAT
- +2 V M P Q F T E A V 491 TGTCATGCCA CAATTCACAG AAGCTGTGTA GTCGAGCTCC GTCGACAAGC TTGCGGCCGC

the are neglic.

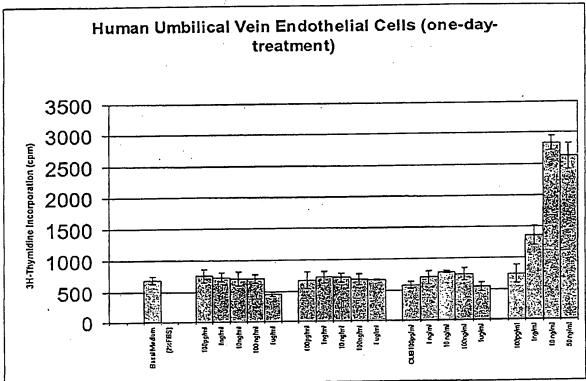
541 ACTCGAGCAC

Figure 27. Expression of the CUB domain in E.coli



Figure 28. The Effect of Truncated VEGF-X (CUB domain) on HoveC Proliferation





Date of Deposit: 12/21/99



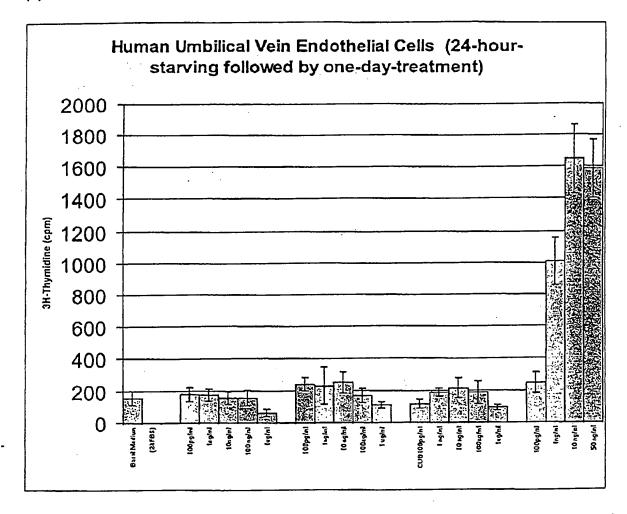


Figure 28

(C)- The effect of VEGF-A₁₆₅ and VEGF-X CUB domain on the proliferation of HUVEC (two-day-treatment).

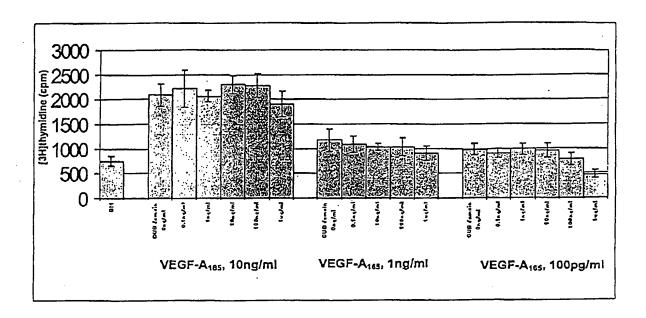
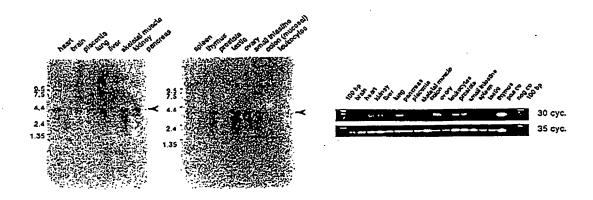
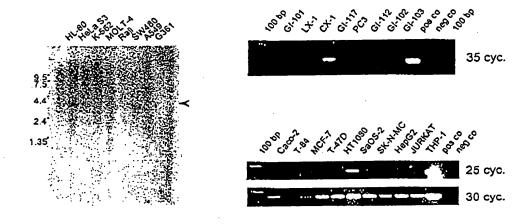


Figure 29 Tissue distribution of mRNA

# (A) - Normal tissues



## (B) - Tumour tissue and cell lines



### Figure 30. Partial incron/exon structure of the VEGF-X gene

### (A) - Genomic DNA sequences of 2 exons determined by sequencing

aaagccagtcatagacattcgttgatttttaaaagtggcttactcttattccctttcagGTCCTTCAGTTGAGACCAAAGACCGGT ATAGCCGCATCACCAGCAGCTCTTGCCCAGAGCTGTGCAGTGCAGTGGCTGATTCTATTAGAGAACGTATGCGTTATCTCCAT CCTTAATCTCAGTTGTTTGCTTCAAGGACCTTTCATCTTCAGGATTTACAGTGCATTCTGAAAGAGGAGACATCAAACAGAATTAG ANATAGATCACCAGCTAGTTTCAGAGTTACCATGTACGTATTCCACTAGCTGGGTTCTGTATTTCAGTTCTTTCGATACGGCTTAG GGTAATGTCAGTACAGGAAAAAACTGTGCAAGTGAGCACCTGATTCCGTTGCCTTGGCTTAACTCTAAAGCTCCATGTCCTGGGC TGGTTTTTAAAAAGGAACTATGTTGCTATGAATTAAACTTGTGTCATGCTGATAGGACAGACTGGATTTTCATATTTCTTATTAA AATTTCTGCCATTTAGAAGAAGAACTACATTCATGGTTTGGAAGAGATAAACCTGAAAAGAAGAGTGGCCTTATCTTCACTTTA TCGATAAGTCAGTTTATTTGTTTCATTGTGTACATTTTTATATTCTCCTTTTGACATTATAACTGTTGGCTTTTCTAATCTTGTTA AATATATCTATTTTTACCAAAGGTATTTAATATTCTTTTTTATGACAACTTAGATCAACTATTTTTAGCTTGGTAAATTTTTCTAA ACACARTGTTATAGCCAGAGGAACAAGATGATAAAATATTGTTGCTCTGACAAAAATACATGTATTTCATTCTCGTATGGTG CTAGAGTTAGATTAATCTGCATTTTAAAAAACTGAATTGGAATAGAATTGGTAAGTTGCAAAGACTTTTTGAAAATAATTAAATTA TCATATCTTCCATTCCTGTTATTCGAGATGAAAATAAAAAGCAACTTATGAAAGTAGACATTCAGATCCAGCCATTACTAACCTAT TCCTTTTTTGGGGAAATCTGAGCCTAGCTCAGAAAAACATAAAGCACCTTGAAAAAGACTTGGCAGCTTCCTGATAAAGCGTGCTG TGCTGTGCAGTAGGAACACATCCTATTTATTGTGATGTTGTGGTTTTATTATCTTAAACTCTGTTCCATACACTTGTATAAATACA TGGATATTTTTATGTACAGAAGTATGTCTCTTAACCAGTTCACTTATTGTACTCTGGCAATTTAAAAGAAAATCAGTAAAATATTT TGCTTGTAAAATGCTTAATATCGTGCCTAGGTTATGTGGTGACTATTTGAATCAAAAATGTATTGAATCATCAAATAAAAAGAATGT GGCTATTTTGGGGAGAAAATTatgtgtgtgtgtgctcaagatttatttctttggactctgagaaaatgaaagataaa



#### Figure 30 continued

#### (B) - Location of splice sites within the cDNA sequence

- 1 GAATTCGCCC TTTTGTTTAA ACCTTGGGAA CTGGTTCAGG TCCAGGTTTT GCTTTGATCC
- 61 TTTTCAAAAA CTGGAGACAC AGAAGAGGGC TCTAGGAAAA AGTTTTGGAT GGGATTATGT
- 121 GGAAACTACC CTGCGATTCT CTGCTGCCAG AGCAGGCTCG GCGCTTCCAC CCCAGTGCAG
- 181 CCTTCCCTG GCGGTGGTGA AAGAGACTCG GGAGTCGCTG CTTCCAAAGT GCCCGCCGTG
- +3 M S L F G L L L L T S
  241 AGTGAGCTCT CACCCCAGTC AGCCAAATGA GCCTCTTCGG GCTTCTCCTG CTGACATCTG
- +3 A L A G Q R Q G T Q A E S N L S S K F Q
  301 CCCTGGCCGG CCAGAGACAG GGGACTCAGG CGGAATCCAA CCTGAGTAGT AAATTCCAGT
- +3 F S S N K E Q N G V Q D P Q H E R I I T 361 TTTCCAGCAA CAAGGAACAG AACGGAGTAC AAGATCCTCA GCATGAGAGA ATTATTACTG
- +3 V S T N G S I H S P R F P H T Y P R N T 421 TGTCTACTAA TGGAAGTATT CACAGCCCAA GGTTTCCTCA TACTTATCCA AGAAATACGG
- +3 V L V W R L V A V E E N V W I Q L T F D
  481 TCTTGGTATG GAGATTAGTA GCAGTAGAGG AAAATGTATG GATACAACTT ACGTTTGATG
- +3 E R F G L E D P E D D I C K Y D F V E V 541 AAAGATTTGG GCTTGAAGAC CCAGAAGATG ACATATGCAA GTATGATTTT GTAGAAGTTG
- +3 E E P S D G T I L G R W C G S G T V P G
  601 AGGAACCCAG TGATGGAACT ATATTAGGGC GCTGGTGTGG TTCTGGTACT GTACCAGGAA
- +3 K Q I S K G N Q I R I R F V S D E Y F P 661 AACAGATTC TAAAGGAAAT CAAATTAGGA TAAGATTTGT ATCTGATGAA TATTITCCTT
- +3 S E P G F C I H Y N I V M P Q F T E A V
  721 CTGAACCAGG GTTCTGCATC CACTACAACA TTGTCATGCC ACAATTCACA GAAGCTGTGA
- +3 S P S V L P P S A L P L D L L N N A I T
  781 GTCCTTCAGT GCTACCCCCT TCAGCTTTGC CACTGGACCT GCTTAATAAT GCTATAACTG
- +3 A F S T L E D L I R Y L E P E R W Q L D 841 CCTTTAGTAC CTTGGAAGAC CTTATTCGAT ATCTTGAACC AGAGAGATGG CAGTTGGACT
- +3 L E D L Y R P T W Q L L G K A F V F G R 901 TAGAAGATCT ATATAGGCCA ACTTGGCAAC TICTTGGCAA GGCTTTTGTT TITTGGAAGAA
- +3 K S R V V D L N L L T E E V R L Y S C T
  961 AATCCAGAGT GGTGGATCTG AACCTTCTAA CAGAGGAGGT AAGATTATAC AGCTGCACAC
- +3 P R N F S V S I R E E L K R T D T I F W 1021 CTCGTAACTT CTCAGTGTCC ATAAGGGGAAG AACTAAAGAG AACCGATACC ATTTCTGGC
- +3 P G C L L V K R C G G N C A C C L H N C
  1081 CAGGTTGTCT CCTGGTTAAA CGCTGTGGTG GGAACTGTGC CTGTTGTCTC CACAATTGCA
- +3 N E C Q C V P S K V T K K Y H E V L Q L
  1141 ATGAATGTCA ATGTGTCCCA AGCAAAGTTA CTAAAAAATA CCACGAGGTC CTTCAGTTGA

1201 GACCAAAGAC CGGTGTCAGG GGATTGCACA AATCACTCAC CGACGTGGCC CTGGAGCACC +3 H E E C D C V C R G S T G G 1261 ATGAGGAGTG TGACTGTGTG TGCAGAGGGA GCACAGGAGG ATAGCCGCAT CACCACCAGC 1321 AGCTCTTGCC CAGAGCTGTG CAGTGCAGTG GCTGATTCTA TTAGAGAACG TATGCGTTAT 1381 CTCCATCCTT AATCTCAGTT GTTTGCTTCA AGGACCTTTC ATCTTCAGGA TTTACAGTGC 1441 ATTCTGAAAG AGGAGACATC AAACAGAATT AGGAGTTGTG CAACAGCTCT TTTGAGAGGA 1501 GGCCTAAAGG ACAGGAGAAA AGGTCTTCAA TCGTGGAAAG AAAATTAAAT GTTGTATTAA 1561 ATAGATCACC AGCTAGTTTC AGAGTTACCA TGTACGTATT CCACTAGCTG GGTTCTGTAT 1621 TTCAGTTCTT TCGATACGGC TTAGGGTAAT GTCAGTACAG GAAAAAAACT GTGCAAGTGA 1681 GCACCIGATT CCGTTGCCTT GCTTAACTCT AAAGCTCCAT GTCCTGGGCC TAAAATCGTA 1741 TAAAATCTGG ATTTTTTTTT TTTTTTTTTG CTCATATTCA CATATGTAAA CCAGAACATT 1801 CTATGTACTA CAAACCTGGT TTTTAAAAAG GAACTATGTT GCTATGAATT AAACTTGTGT 1861 CATGCTGATA GGACAGACTG GATTTTCAT ATTTCTTATT AAAATTTCTG CCATTTAGAA 1921 GAAGAGAACT ACATTCATGG TTTGGAAGAG ATAAACCTGA AAAGAAGAGT GGCCTTATCT 1981 TCACTITATC GATAAGTCAG TITATTTGTT TCATTGTGTA CATTITTATA TTCTCCTTTT 2041 GACATTATAA CTGTTGGCTT TTCTAATCTT GTTAAATATA TCTATTTTTA CCAAAGGTAT 2101 TTAATATTCT TTTTTATGAC AACTTAGATC AACTATTTTT AGCTTGGTAA ATTTTTCTAA 2161 ACACAATTGT TATAGCCAGA GGAACAAAGA TGATATAAAA TATTGTTGCT CTGACAAAAA 2221 TACATGTATT TCATTCTCGT ATGGTGCTAG AGTTAGATTA ATCTGCATTT TAAAAAACTG 2281 AATTGGAATA GAATTGGTAA GTTGCAAAGA CTTTTTGAAA ATAATTAAAT TATCATATCT 2341 TCCATTCCTG TTATTGGAGA TGAAAATAAA AAGCAACTTA TGAAAGTAGA CATTCAGATC 2401 CAGCCATTAC TAACCTATTC CTTTTTTGGG GAAATCTGAG CCTAGCTCAG AAAAACATAA 2461 AGCACCTIGA AAAAGACTIG GCAGCTICCT GATAAAGCGT GCTGTGCTGT GCAGTAGGAA 2521 CACATCCTAT TTATTGTGAT GTTGTGGTTT TATTATCTTA AACTCTGTTC CATACACTTG 2581 TATAAATACA TGGATATTIT TATGTACAGA AGTATGTCTC TTAACCAGTT CACTTATTGT

+3 R P K T G V R G L H K S L T

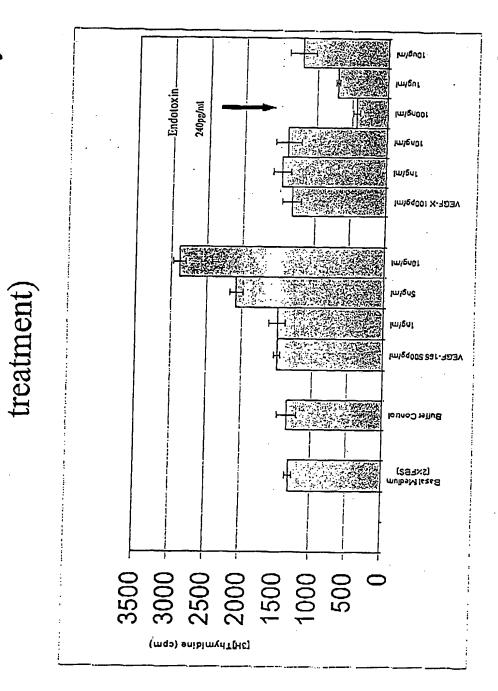
D V A

L E H

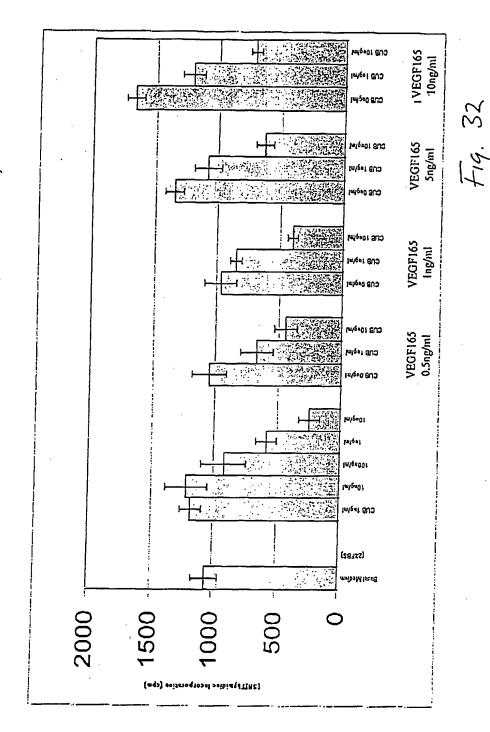
Fig. 30 (cont.)

2641 ACCTGGAAGG GCGAATTCTG CAGATATC

The Effect of FL-VEGF-X on HUVEC Proliferation: (24-hour serum starvation followed by one day-

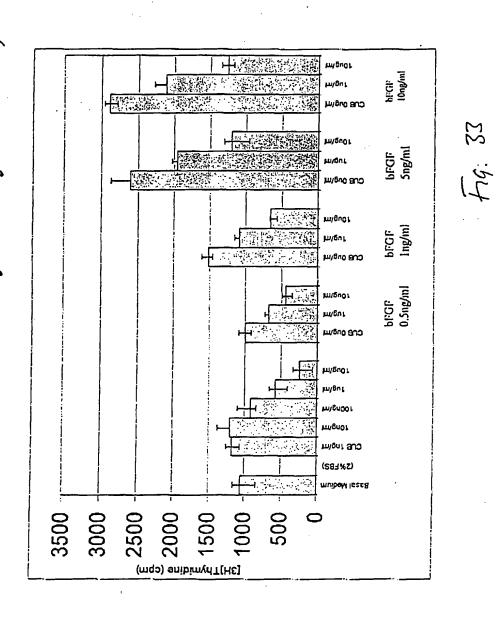


The Combined Effect of Truncated VEGF-X (CUB domain) and Human Recombinant VEGF₁₆₅ on HUVEC Proliferation: (24-hour serum starvation followed by two-day-treatment)

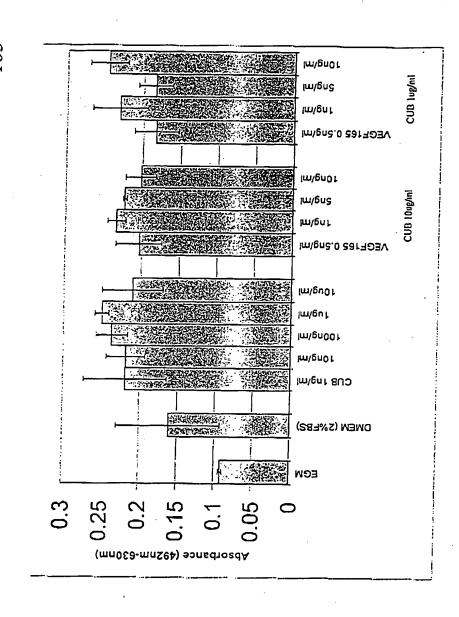


Men II II and that the mile of the last the last

Recombinant bFGF on HUVEC Proliferation: (24-hour The Combined Effect of CUB Domain and Human serum starvation followed by two-day-treatment)



LDH Assay for Testing Cytotoxicity of CUB Domain or CUB Domain with rhVEGF₁₆₅



LDH Assay for Testing Cytotoxicity of CUB Domain or CUB Domain with rh-bFGF

